Approved by: **Arthur Pan**

Prepared by: **Simon Wang**

Title:

Level 1 Service Manual

Doc. No.	Preparation Date	Model	Version	Page
GSM-FUNAI-32”-01	2005/08/15	T32134-AC	V1.0	1 of 36

Version	Date of new version	Contents (Revision)
V1.0	2005/08/15	New release

Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Version	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0
Date	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15
Page	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
Version	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0	A1.0				
Date	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15	8/15				

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T32134-AC LCD TV

Service Manual
Model No: T32134-AC
Brand: Funai

Table of content

1. Attention During Servicing……4

2. Purpose……5

3. Definition Of Level 1 Service……..5

4. Block Diagram……6

5. Disassembly/Assembly Procedures……7

6. Trouble Shooting Analysis……..20

7. Update BIOS……..27

8. Explosion Diagram……..33

9. Level 1 Spare Parts List……34

1. Attention During Servicing

1-1. This TV should be operated from the type of power indicated on the using label. If you are not sure of the type of power available, consult your dealer or local power company..

1-2. The TV shall be placed at low humidity and low dust.

1-3. Place the TV on firm flat surface carefully. The surface of the TV is plastic material and thin glass, drop or sharp impact will cause damage to the TV.

1-4. Do not use alcohol or ammonia-based liquid to clean the TV. If necessary, clean with a slightly damp cloth. Disconnect the TV from the power supply before cleaning.

1-5. Remove the power supply immediately in case of abnormality occurred in the TV, especially strange noise of smell

1-6. Turn on power for testing only after completing the assembly of the TV include casing and tighten the screw while servicing the TV to prevent hazard.

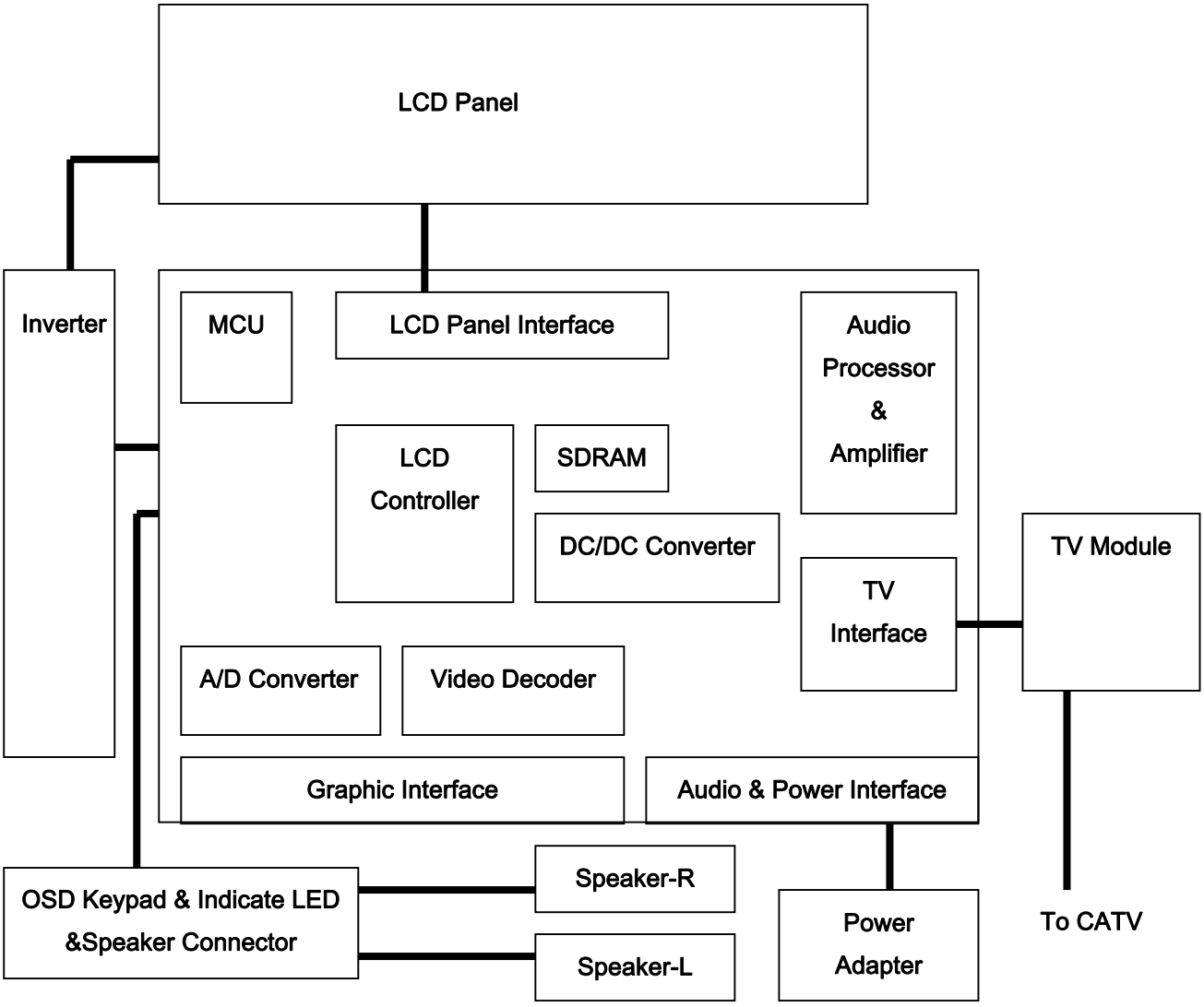
2. Purpose

The purpose of this service manual is for the reference of Authorized Service Provider (ASP) while proceeding level 1 service for the product mentioned in this manual.

3. Definition Of Level 1 Service

The definition of “level 1 service” is defined by Service Provider (SP hereafter) based on service efficiency and effectiveness considerations. Normally level 1 means **PCBA、Mechanical Parts、Internal Cable、Accessory Component、Packing Material** for LCD TV, The concrete composition of level 1 spare parts will be mentioned in item 9, to show the level 1 list of materials.

4. Block Diagram



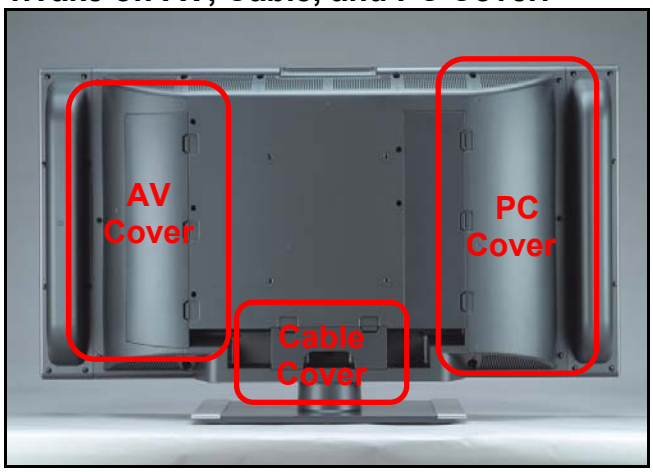
5. Disassembly/Assembly Procedures

Tools.

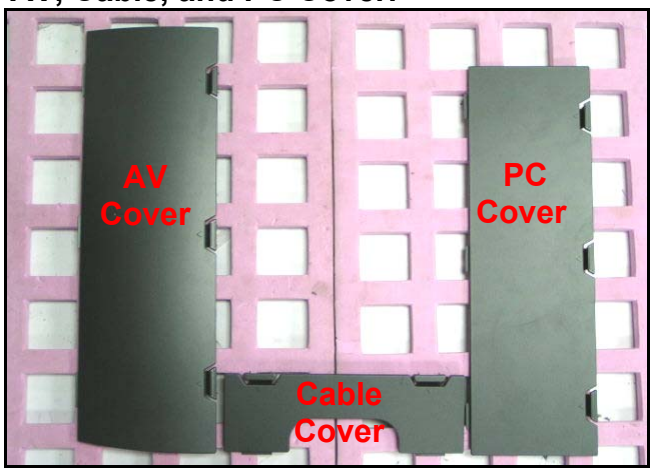
MODEL: T32134-AC

Disassembly steps:

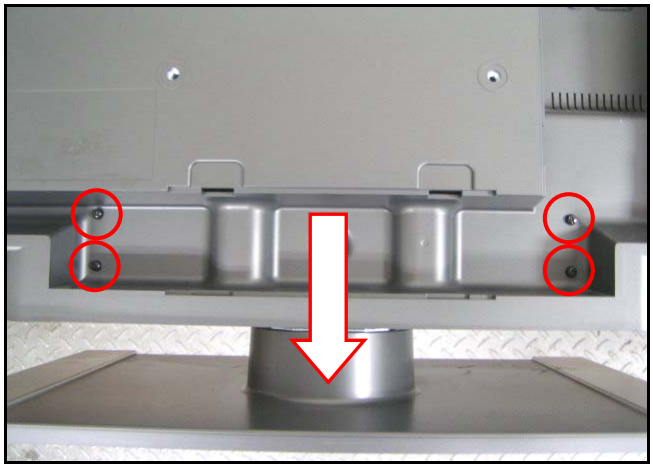
1.Take off AV, Cable, and PC Cover.



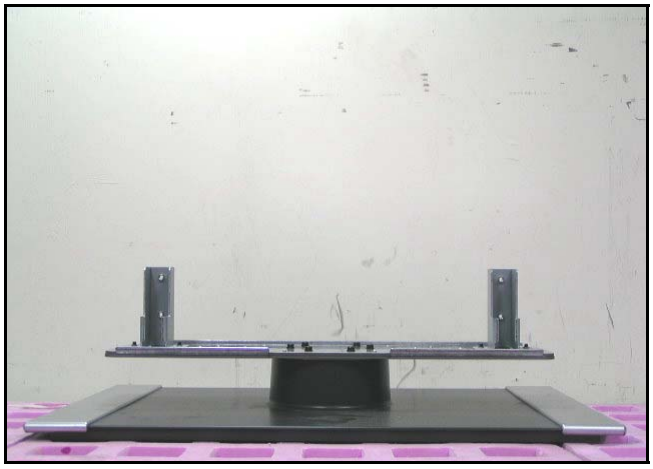
AV, Cable, and PC Cover.



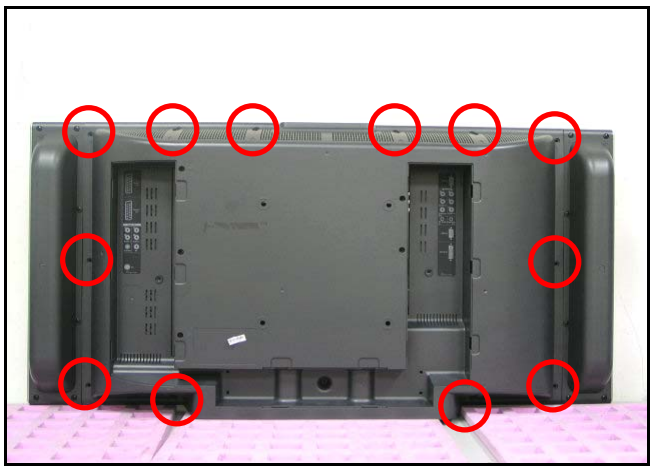
2. Recline TV set, release 4 screws and remove Stand down toward as arrow.



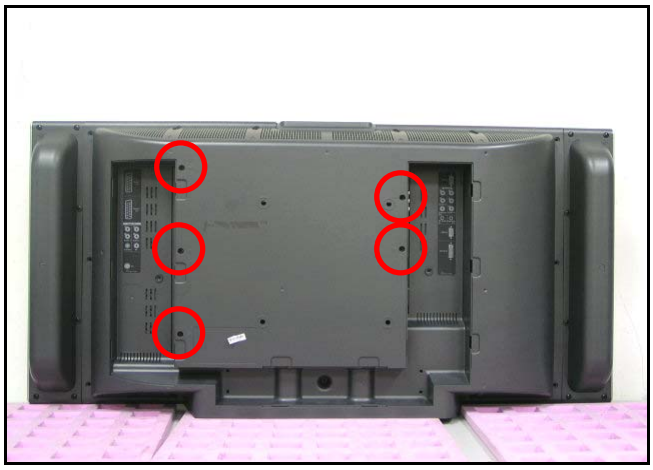
Stand Kit.



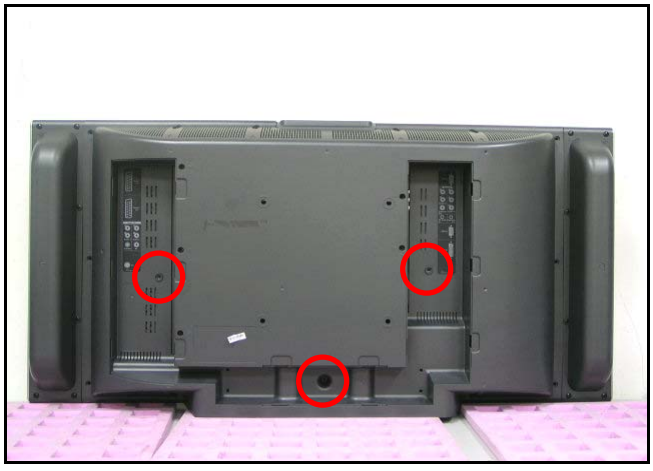
3. Release 12 screws.



3-1. Release 5 screws.

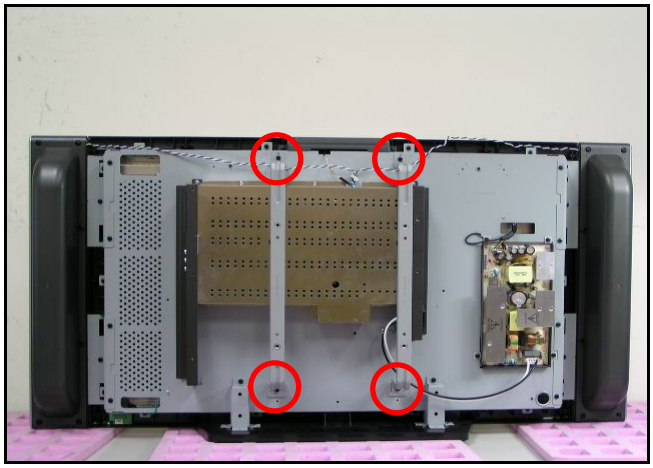


3-2. Release 3 screws and take off Back Cover.

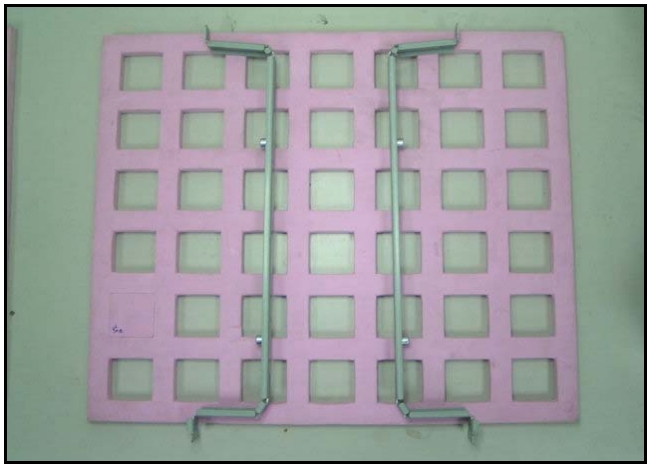


Back Cover.

4. Release 4 screws and take off Wall Mount Bracket.

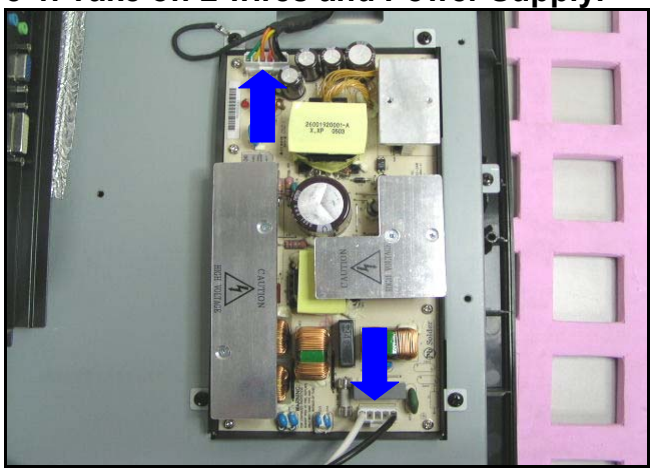


Wall Mount Bracket.

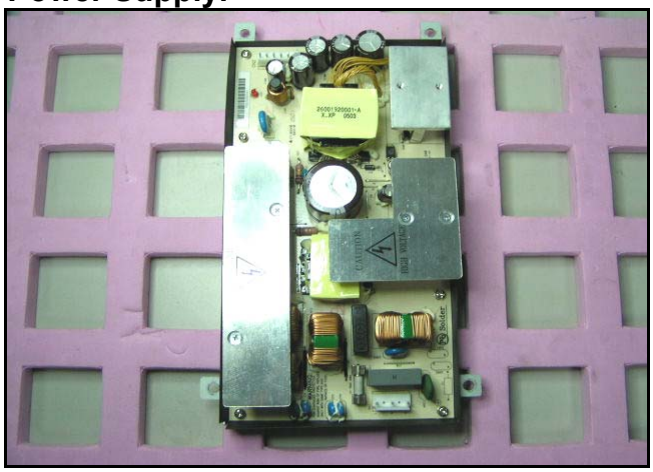


5. Release 4 screws of Power Supply.

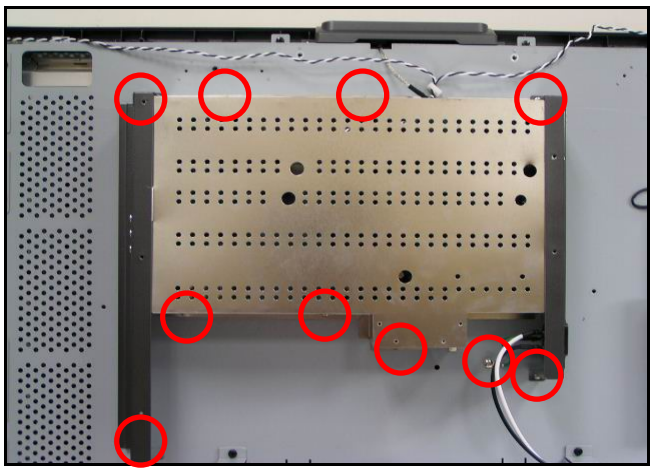
5-1. Take off 2 wires and Power Supply.



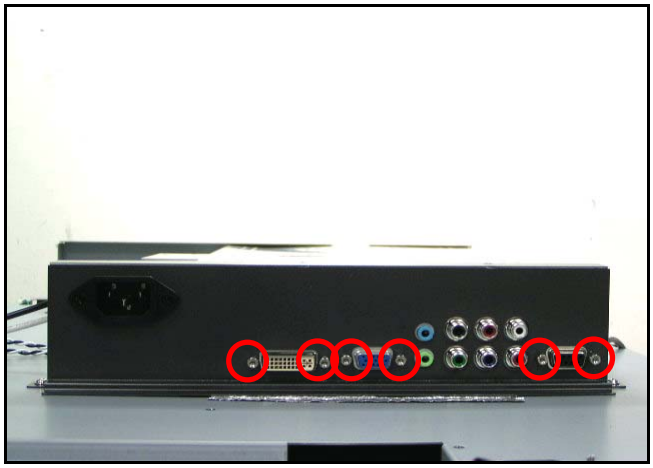
Power Supply.



6.Release 10 screws of Main Cover Bracket.

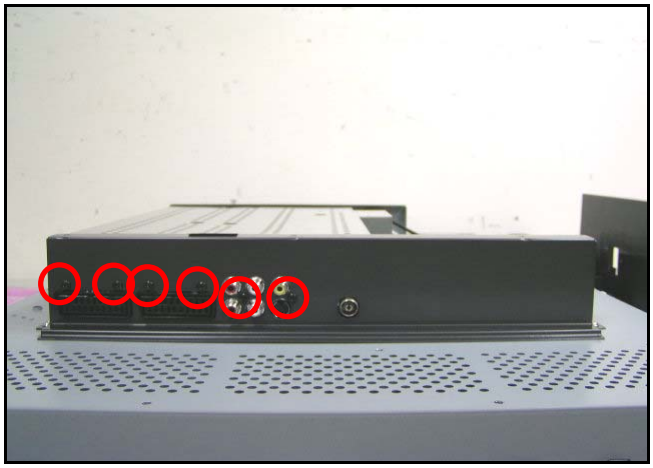


7. Release 6 screws of PC Panel Bracket and take off.

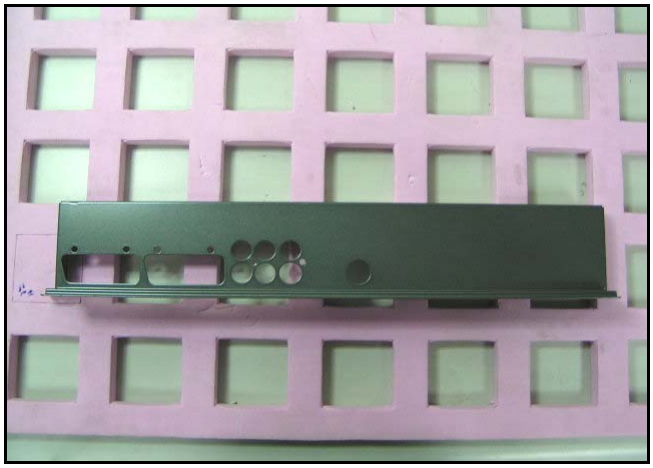


PC Panel Bracket

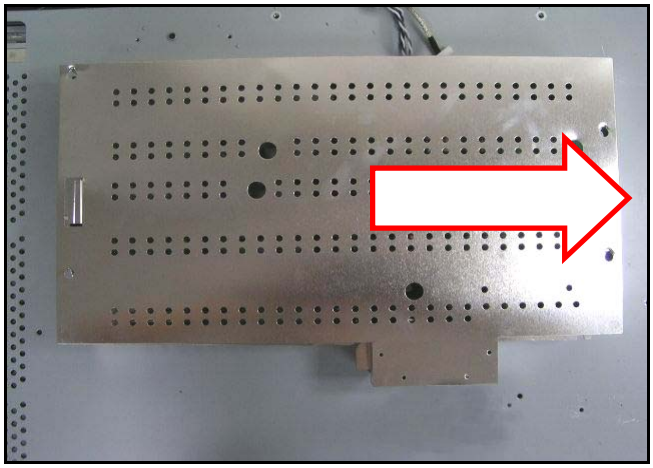
8. Release 5 screws and take off AV Panel Bracket.



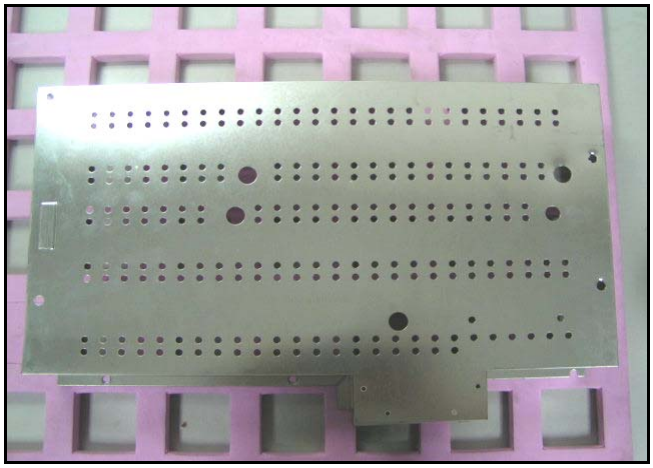
AV Panel Bracket.



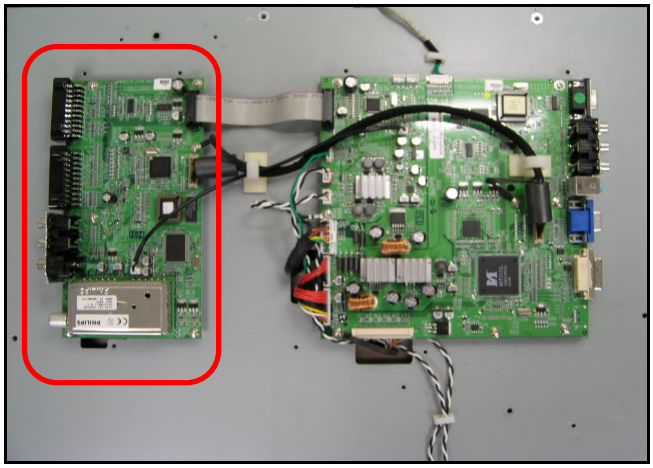
9. Take off Main Cover Bracket by arrow direction.



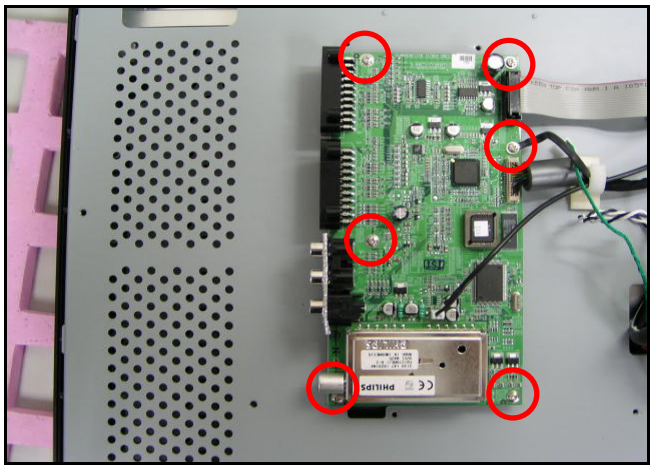
Main Cover Bracket.



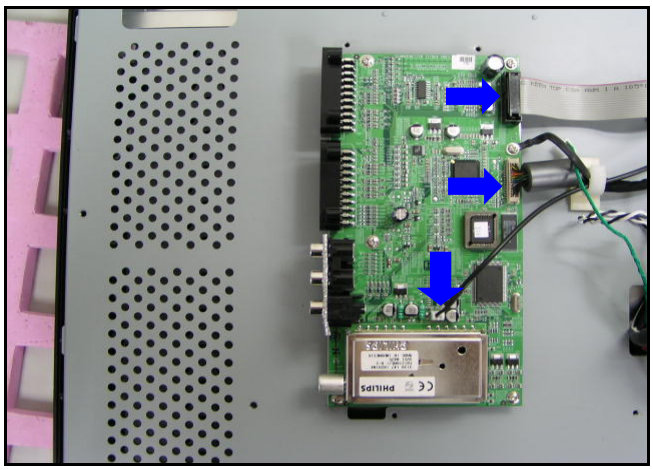
10. Take off Video Board.



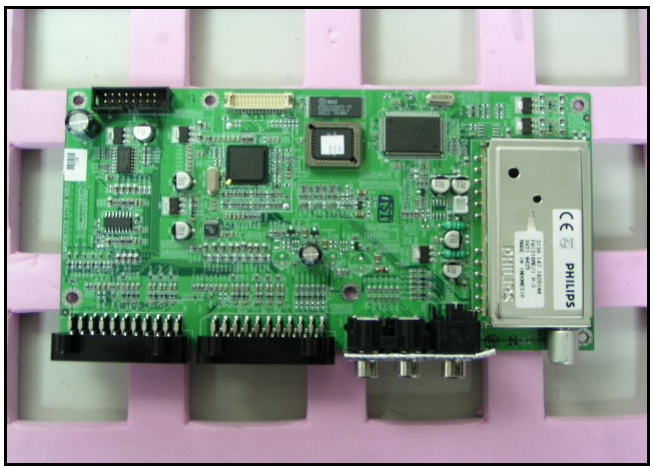
10-1. Release 6 screws of Video Board.



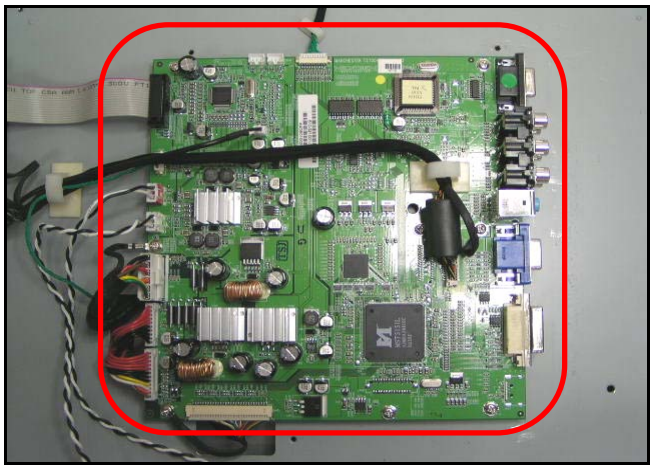
10-2. Take off 3 wires of Video Board.



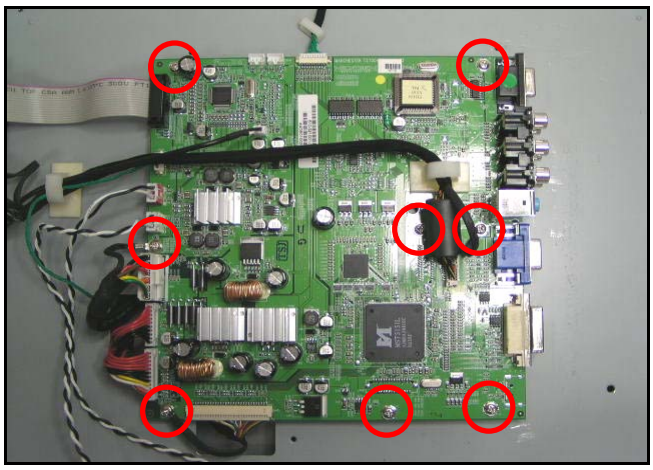
Video Board.



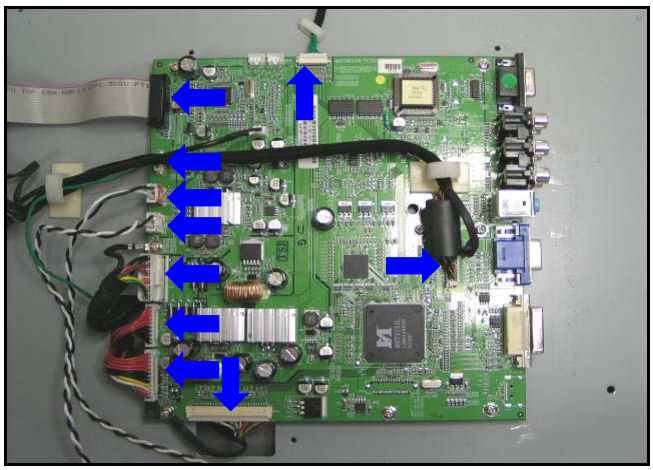
11. Take off Main Board.



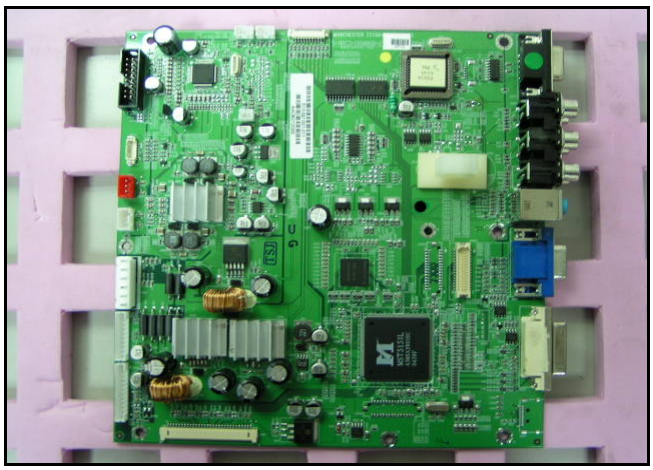
11-1. Release 8 screws of Main Board.



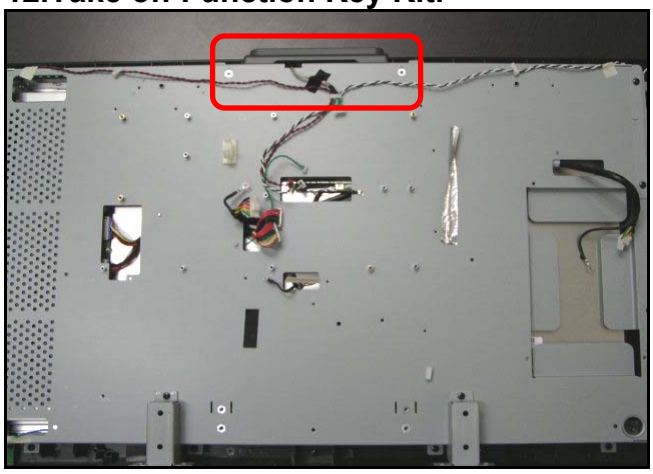
11-2.Take off 10 wires of Main Board.



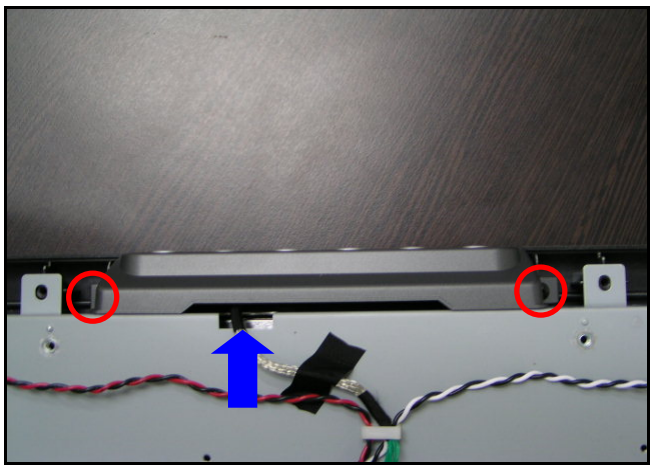
Main Board.



12.Take off Function Key Kit.

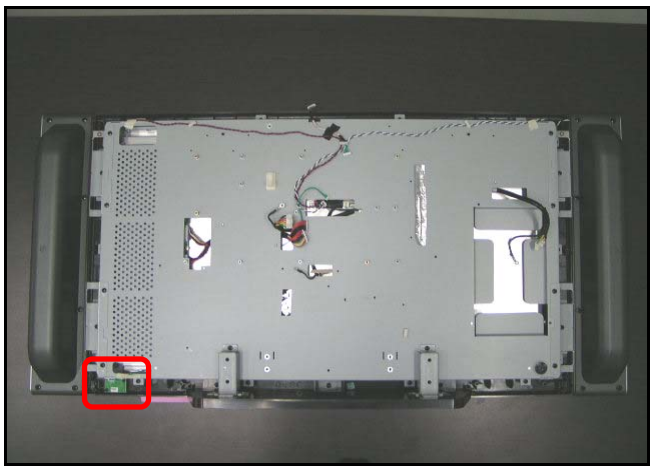


12-1.Release 2 screws and the wire.

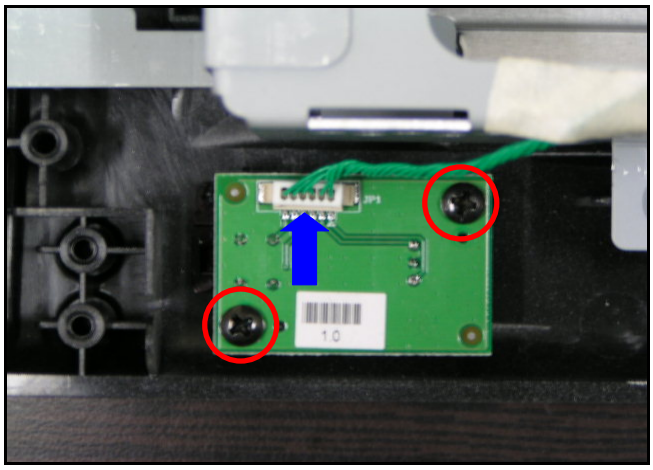


Function Key Kit.

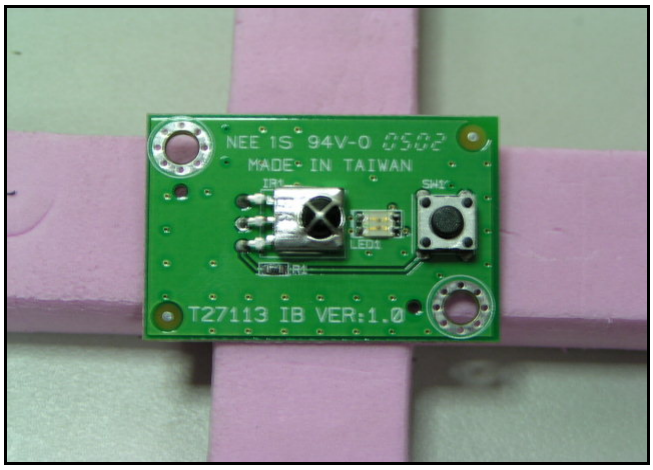
13.Take off IR Board.



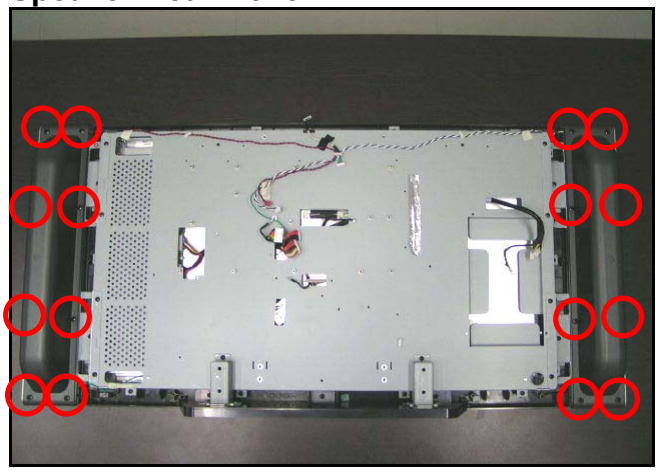
13-1. Take off IR Board.



IR Board.

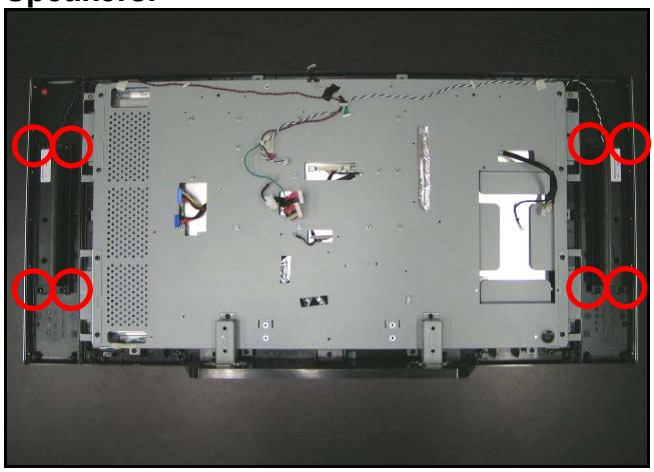


14. Release left and right each 8 screws of Speaker Rear Cover.

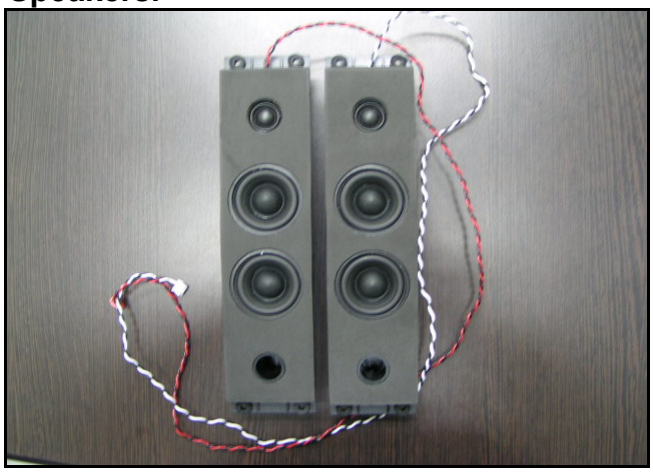


Speaker Rear Cover.

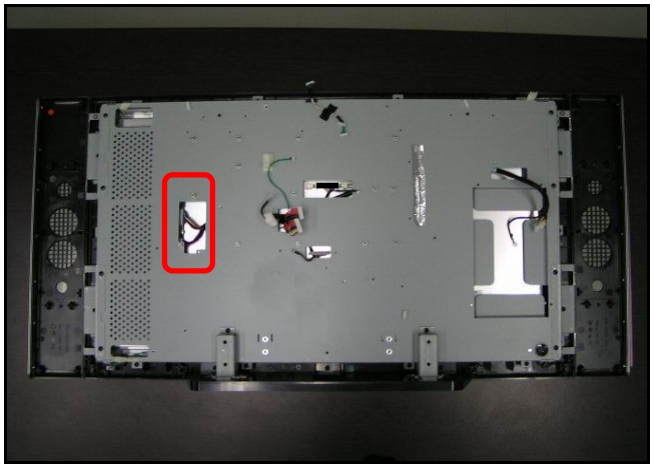
15. Release left and right each 4 screws of Speakers.



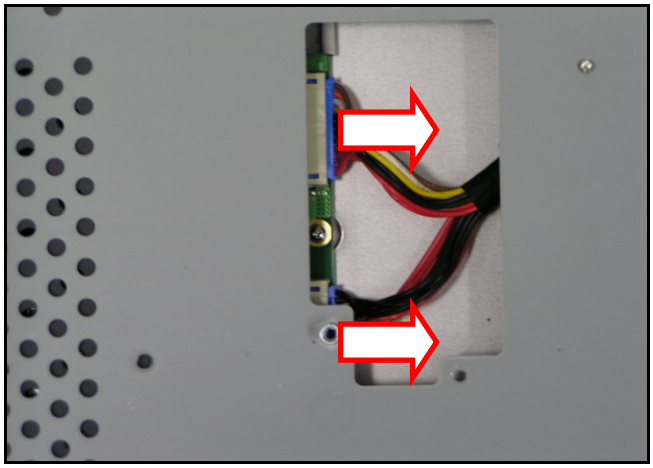
Speakers.



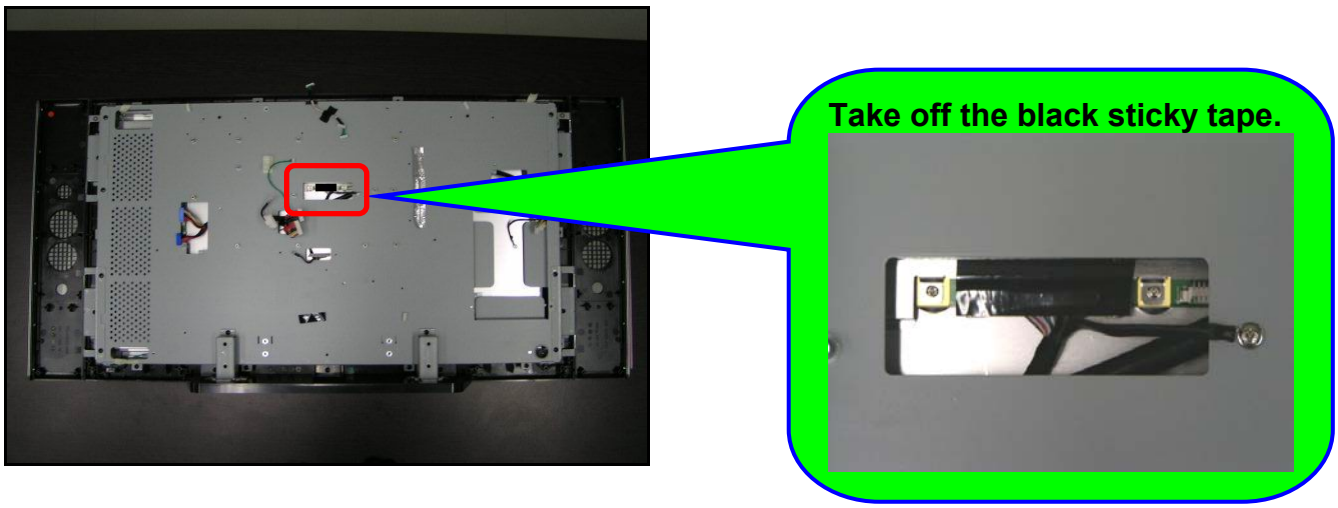
16. Take off Inverter Connector.



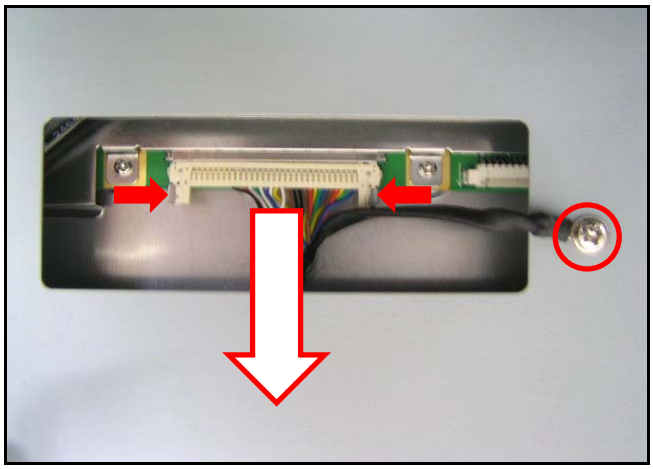
16-1. Take off Connector Wire of Inverter by arrow direction.



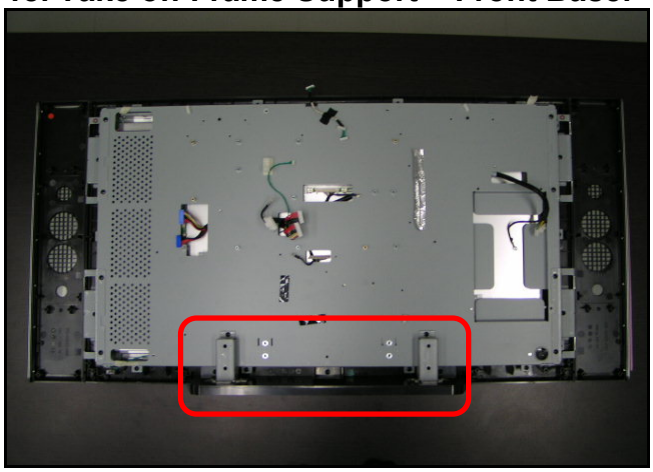
17.Take off Panel Connector.



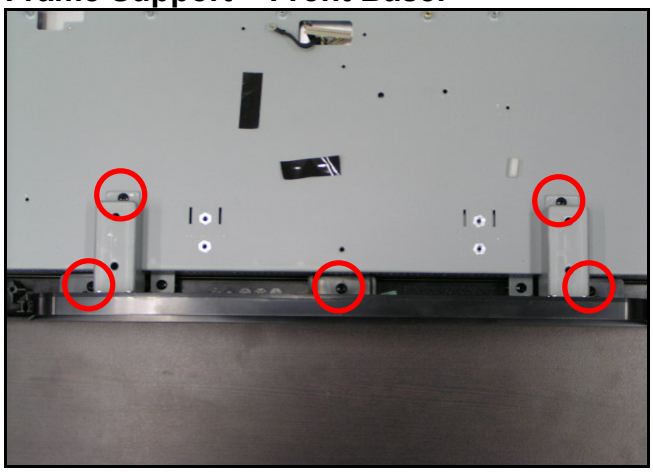
17-1.Release screw of Ground Wire.
17-2.Press and take off Panel Connector by red arrow direction



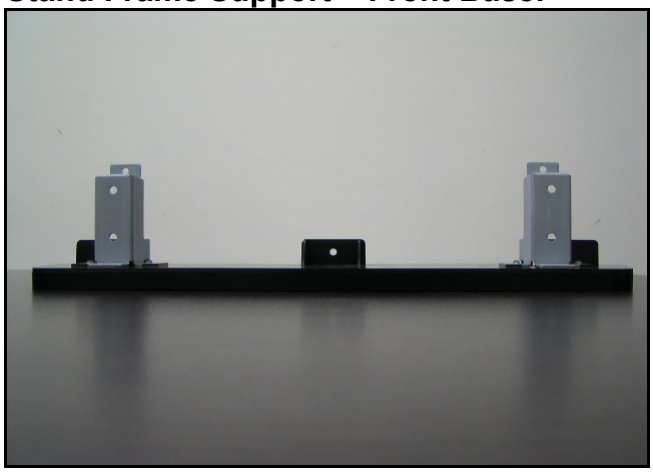
18. Take off Frame Support + Front Base.



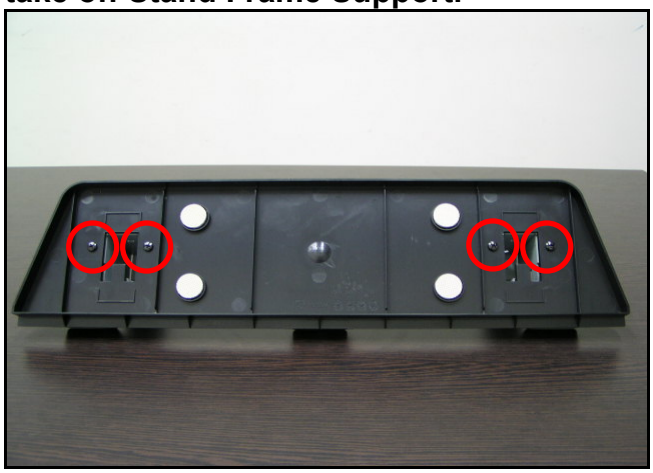
18-1. Release 5 screws and take off Stand Frame Support + Front Base.



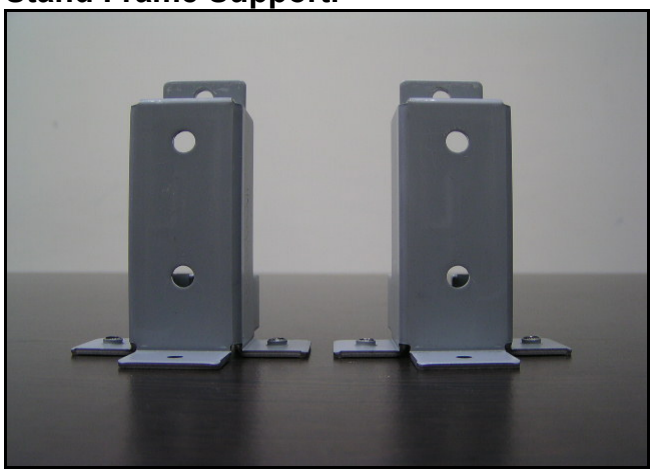
Stand Frame Support + Front Base.



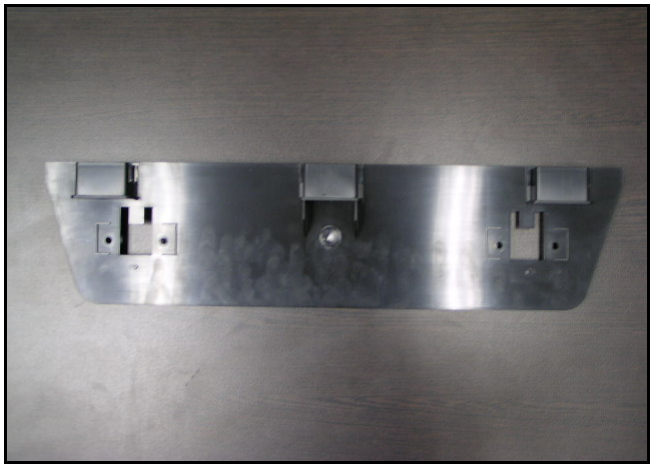
19. Release 4 screws of Front Base and take off Stand Frame Support.



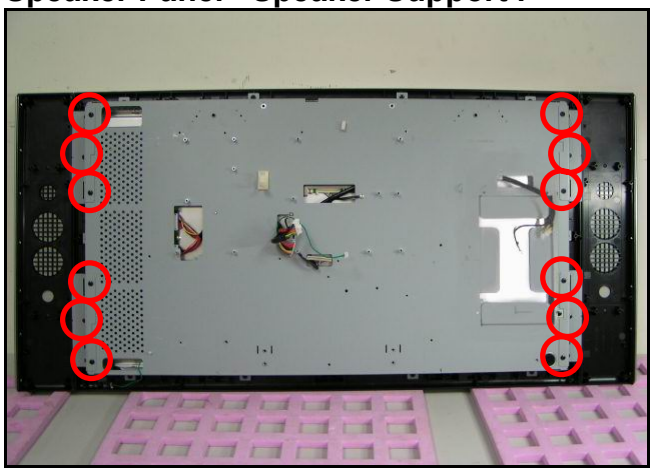
Stand Frame Support.



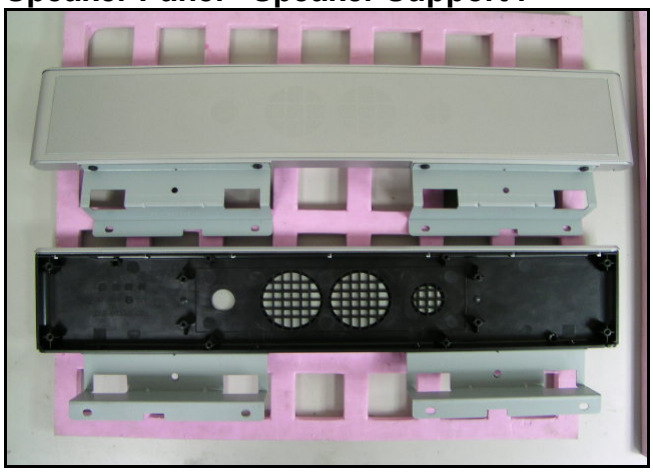
Front Base



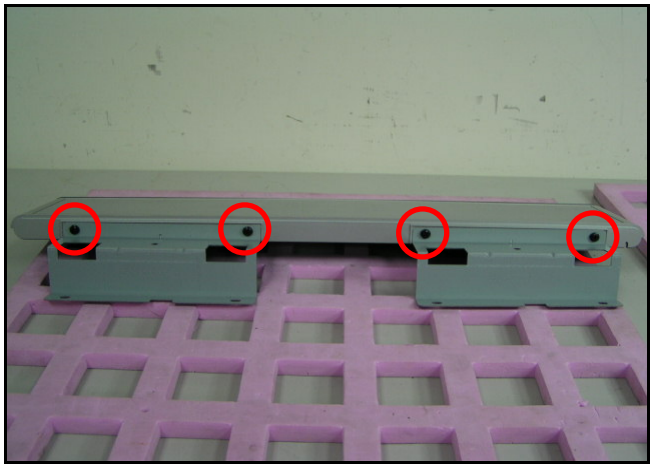
20. Release left and right each 6 screws of Speaker Panel +Speaker Support .



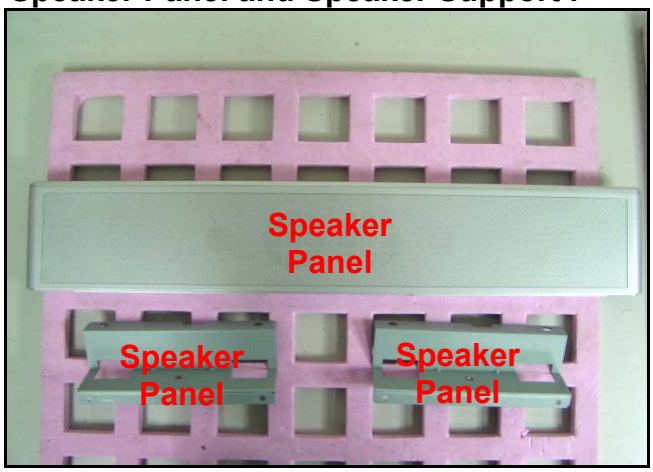
Speaker Panel +Speaker Support .



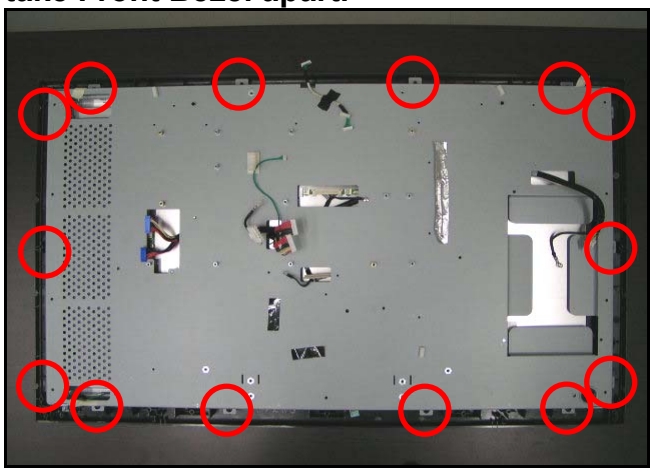
21. Release 4 screws.



Speaker Panel and Speaker Support .

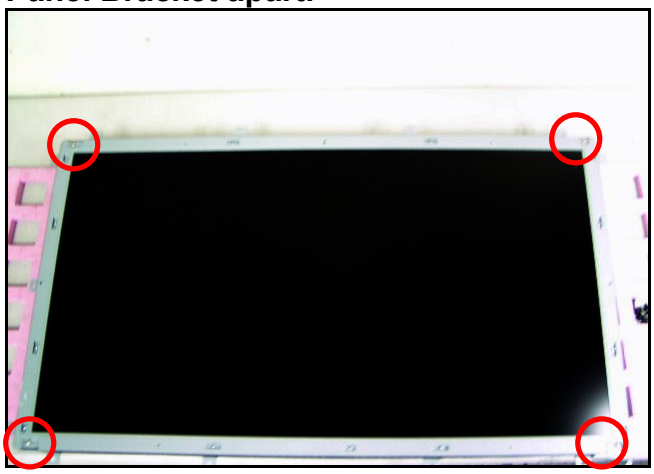


22.Release 14 screws of Panel Bracket and take Front Bezel apart.

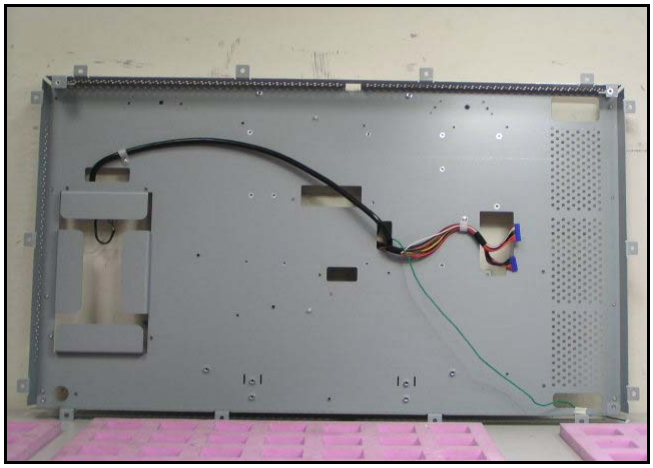


Front Bezel

23. Release 4 screws of Panel and take Panel Bracket apart.



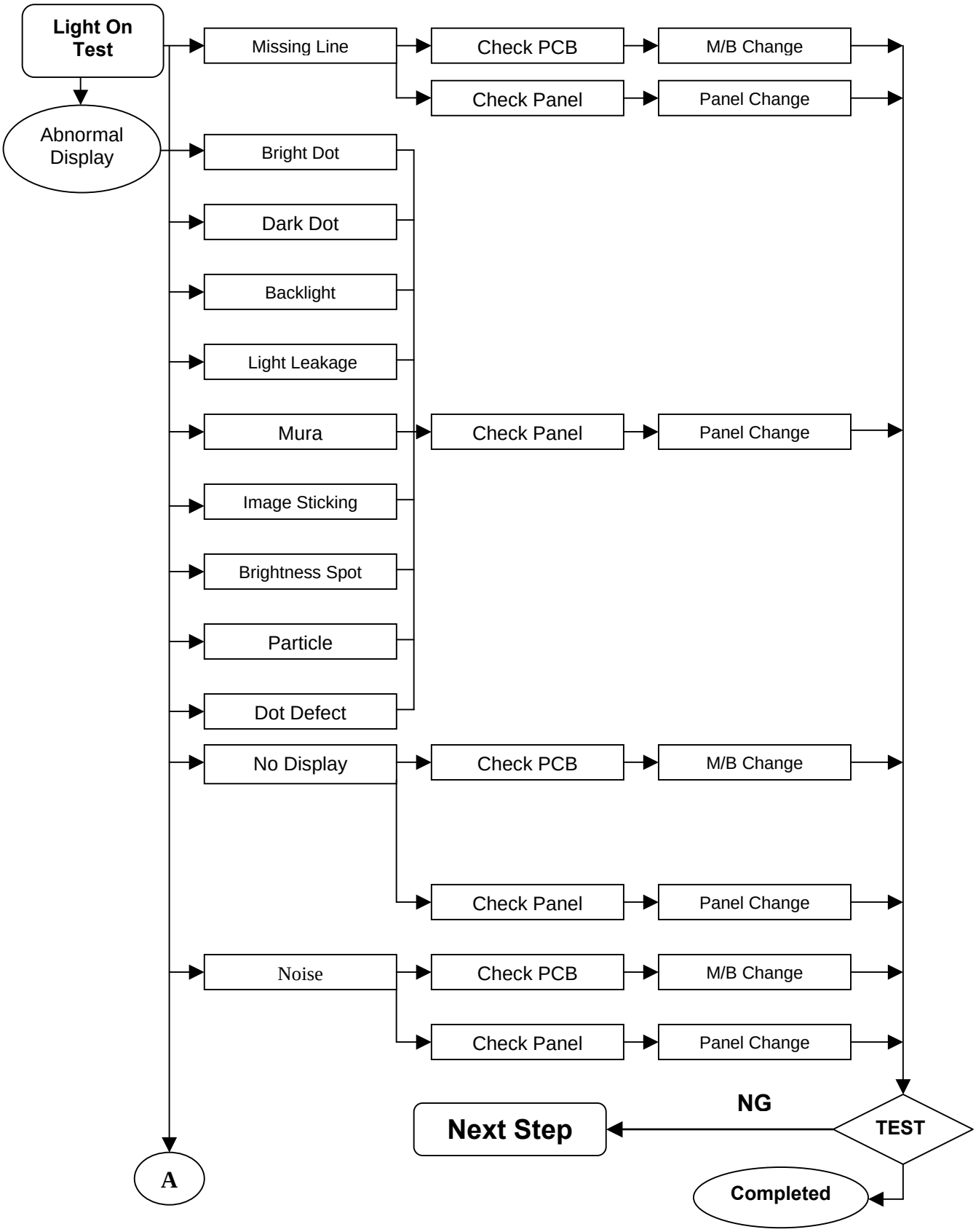
Panel Bracket.



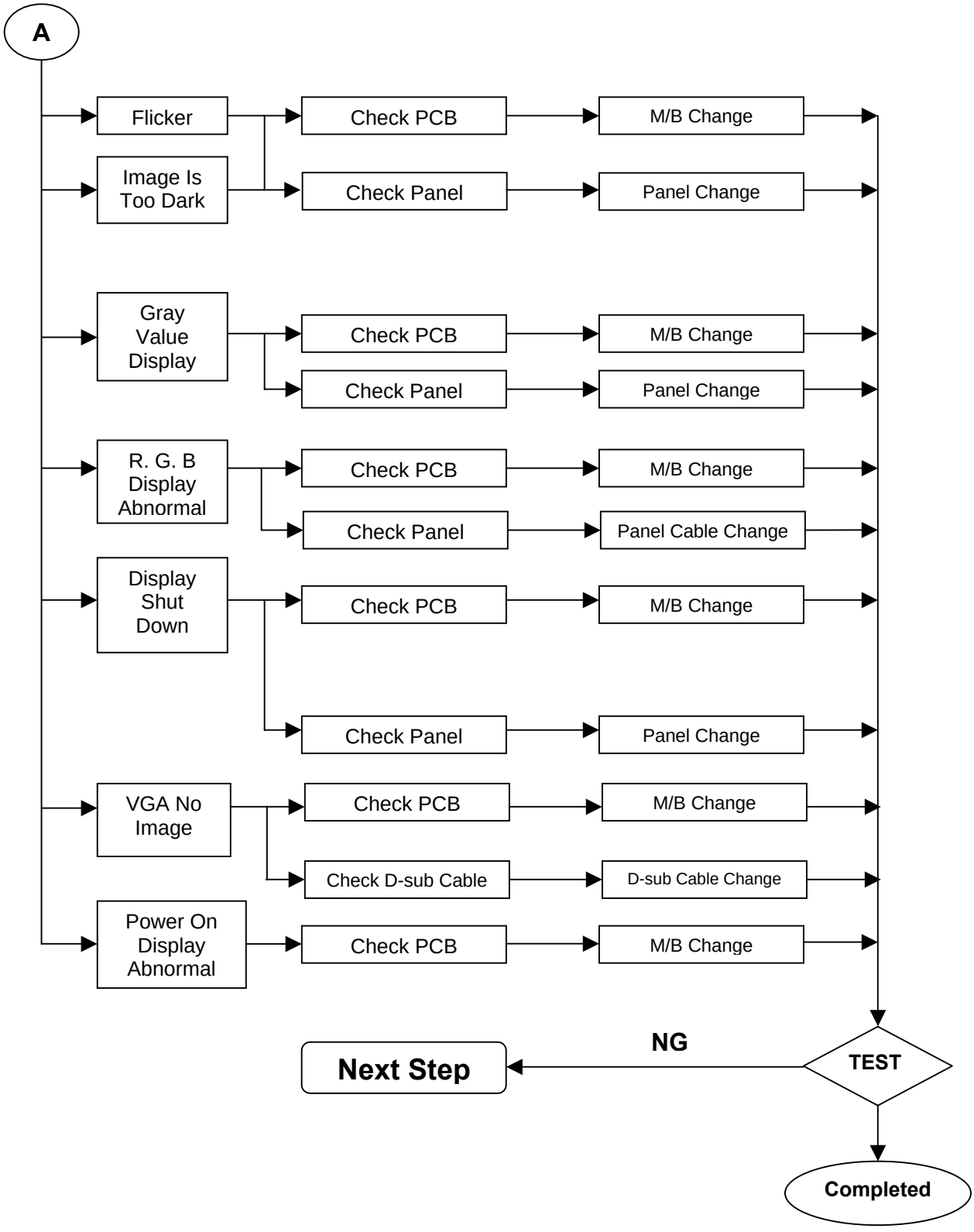
24. Back view of Panel.

6. Trouble Shooting Analysis

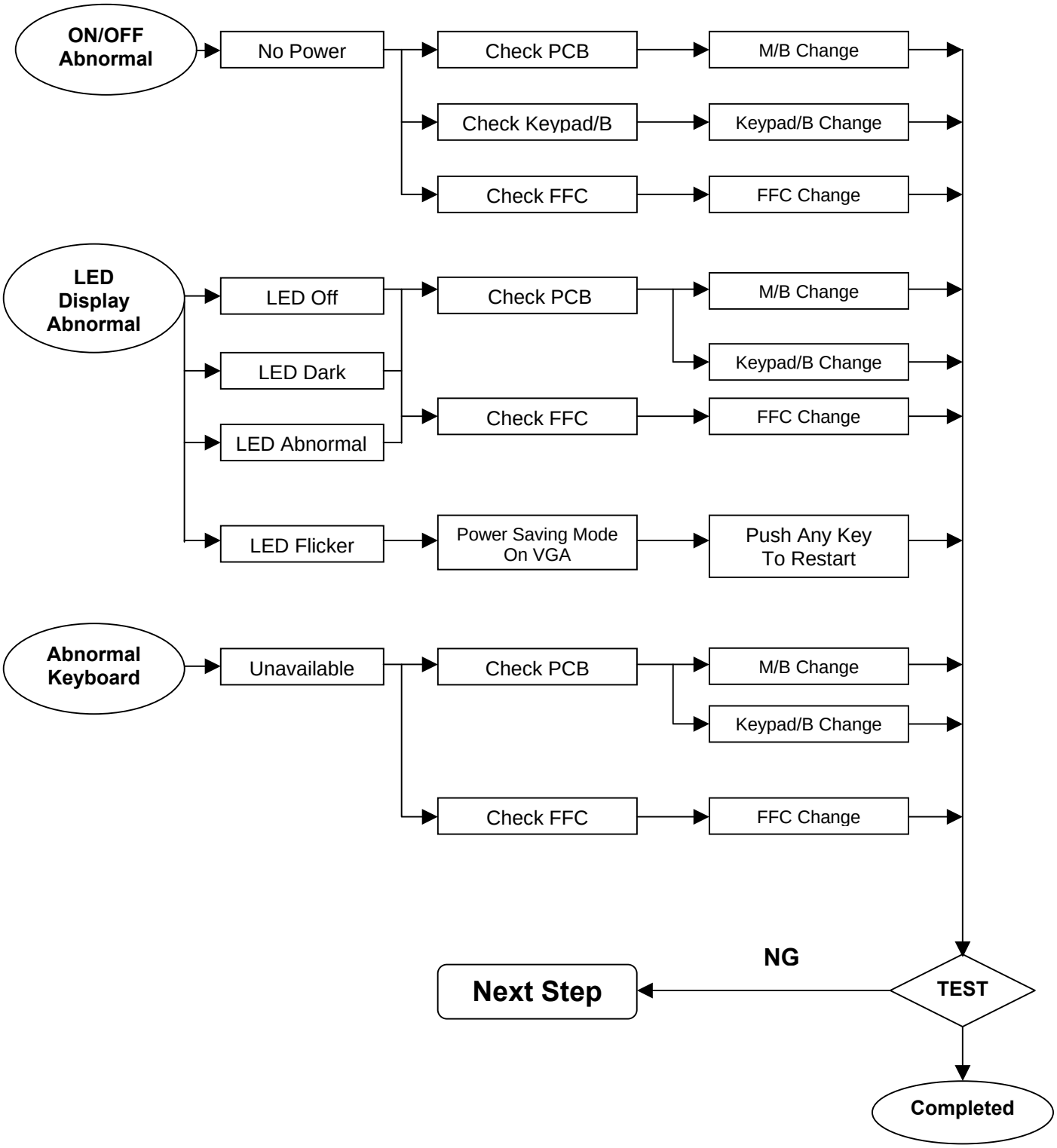
Defect Mode	Failure Analysis	Repair	Testing



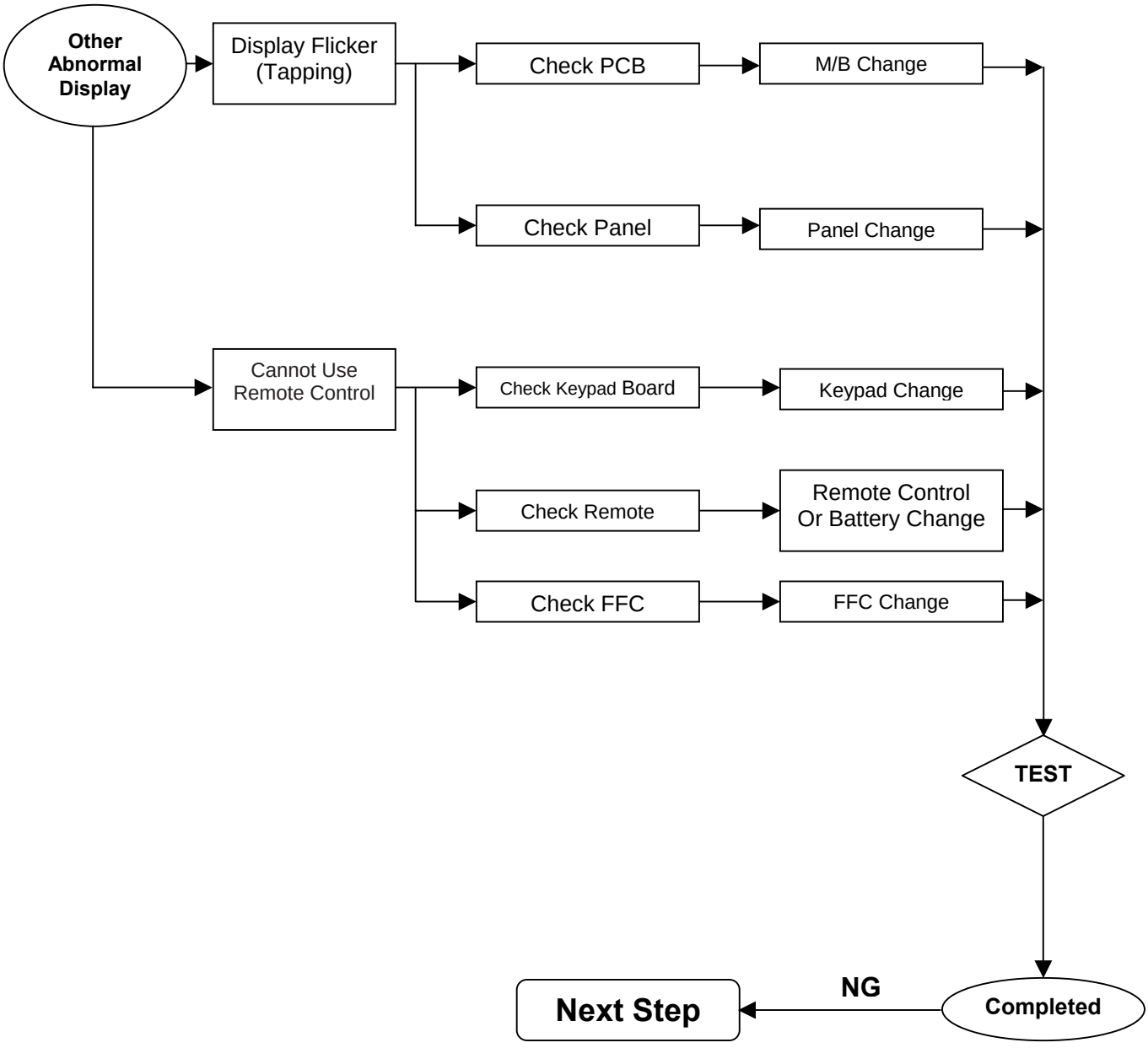
Defect Mode	Failure Analysis	Repair	Testing



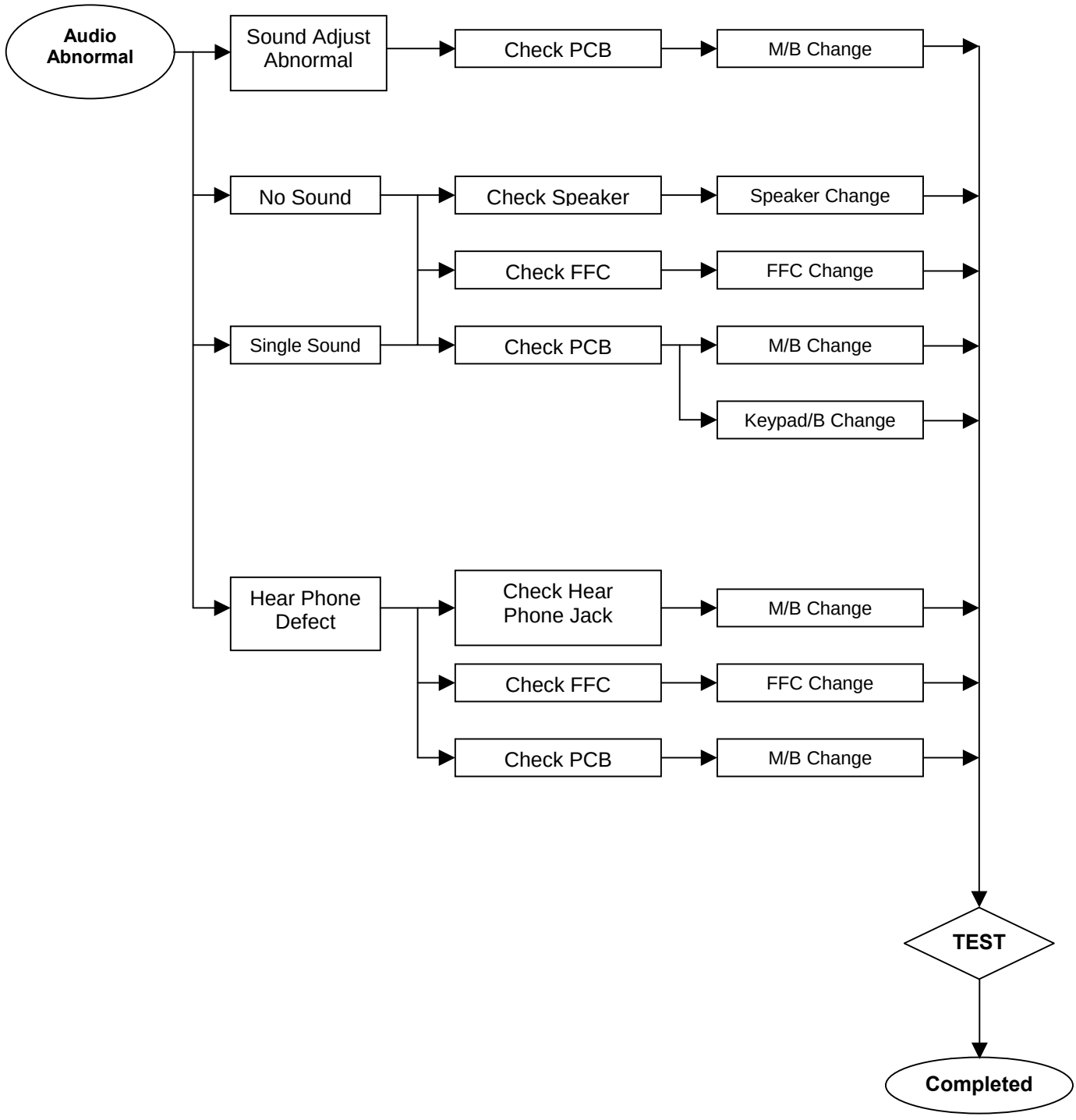
Defect Mode	Failure Analysis	Repair	Testing



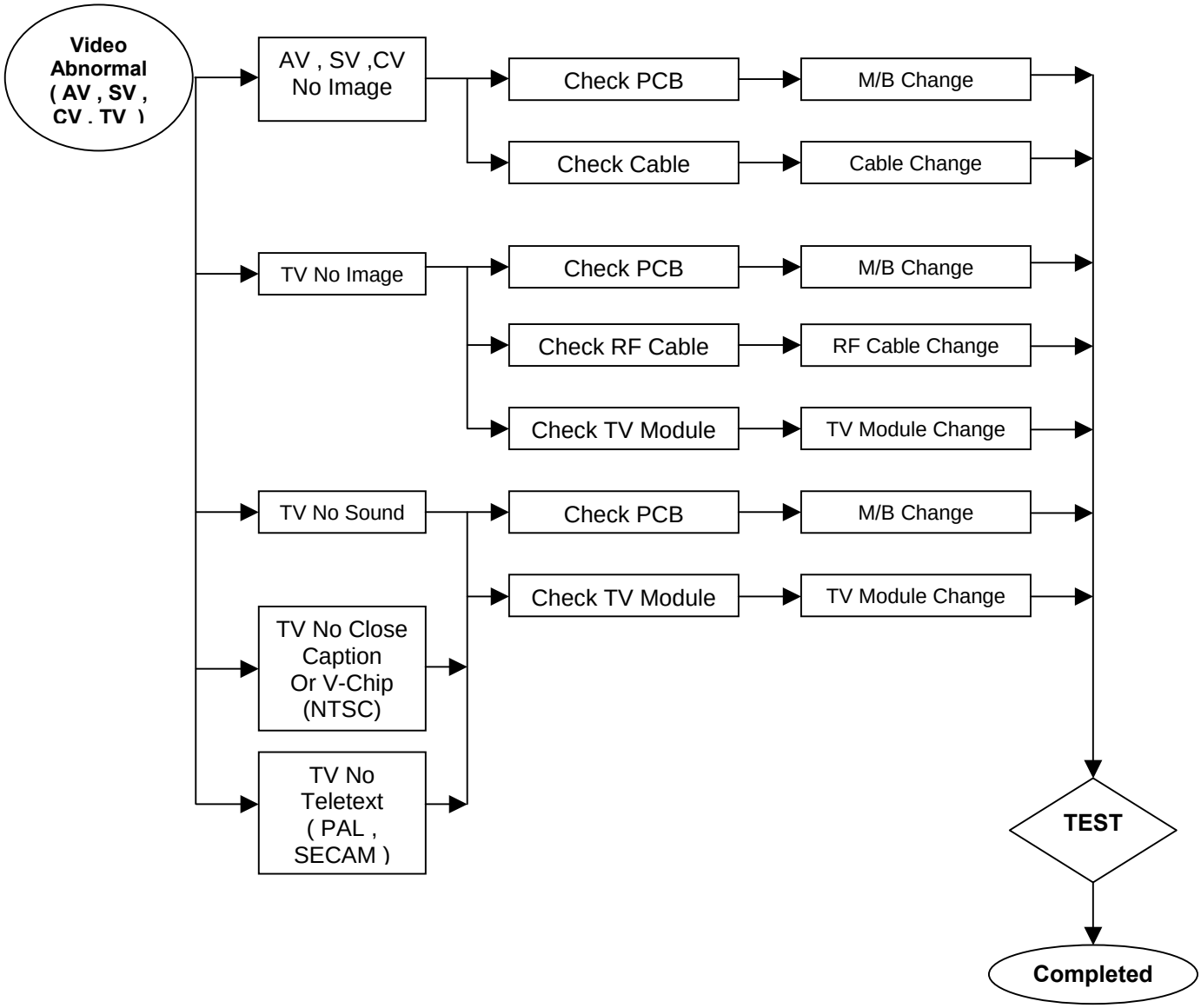
Defect Mode	Failure Analysis	Repair	Testing



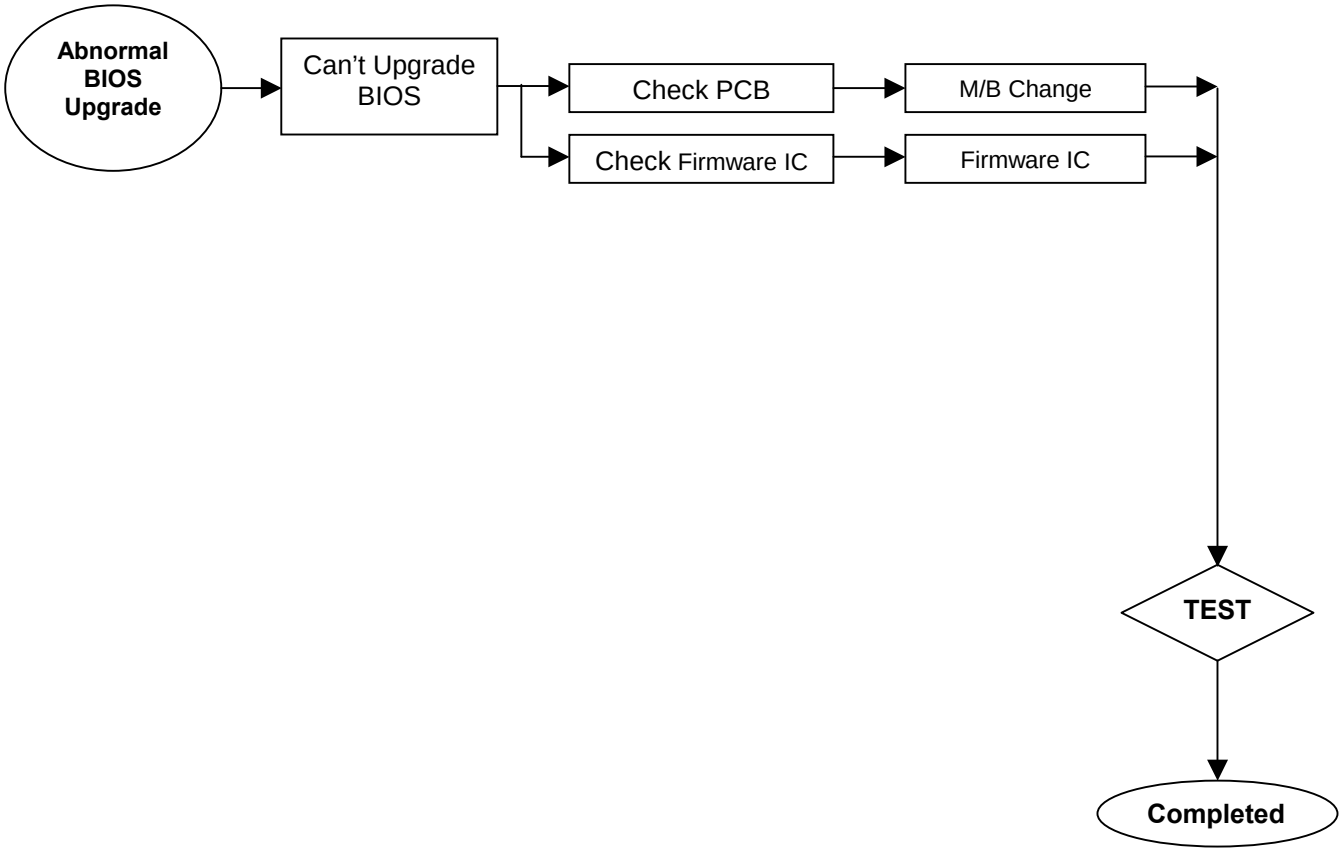
Defect Mode	Failure Analysis	Repair	Testing



Defect Mode	Failure Analysis	Repair	Testing



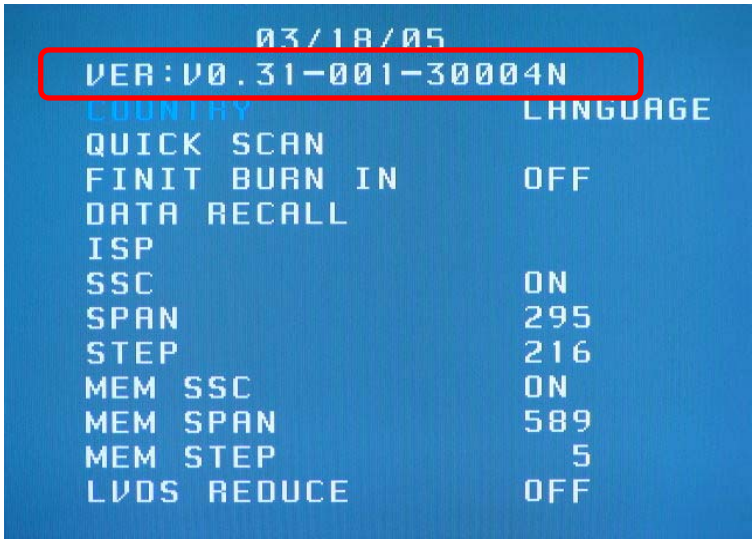
Defect Mode	Failure Analysis	Repair	Testing



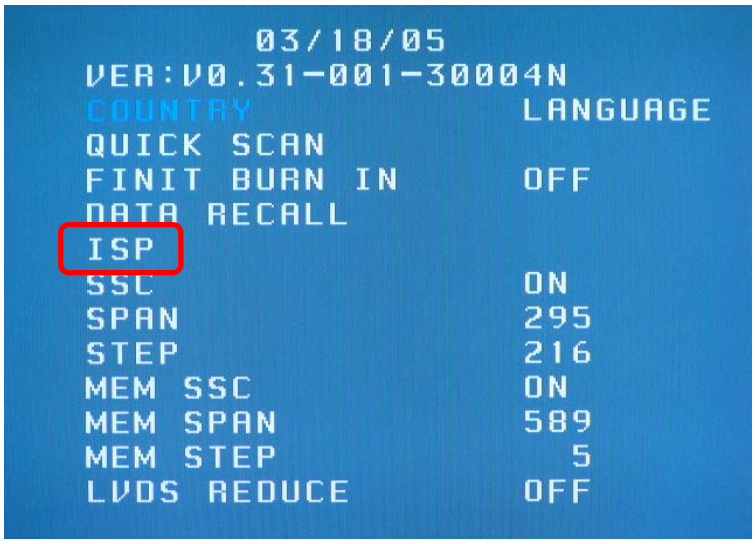
7. Update BIOS.

①.Under TV Mode, press CH▼ & VOL◀ Buttons at same time, then press MENU Button.

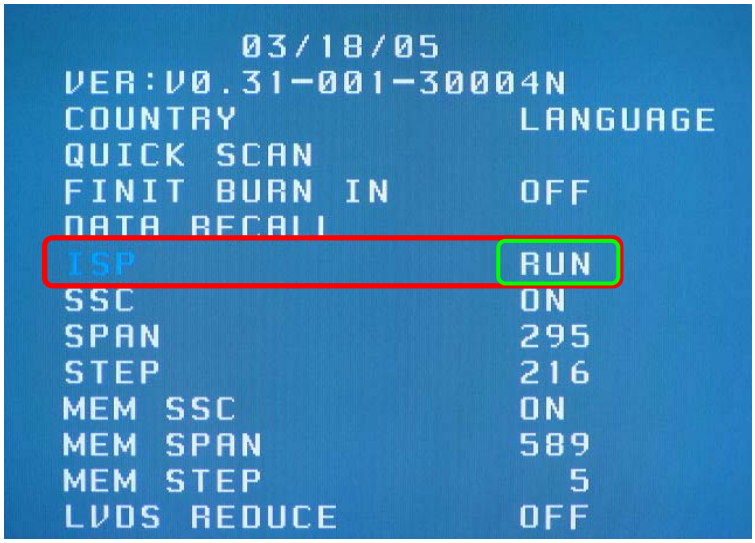
②. Showing F/W Version in the Factory Mode.
(The right side Factory Mode picture is an example.)



③. Pressing CH▼ move to ISP.



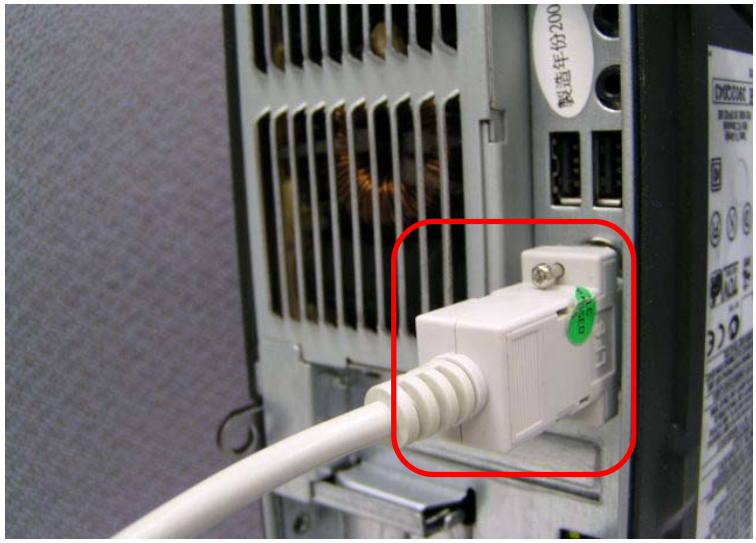
④. Pressing VOL ◀ or ▶Button, It is showing RUN and locks the keypads.



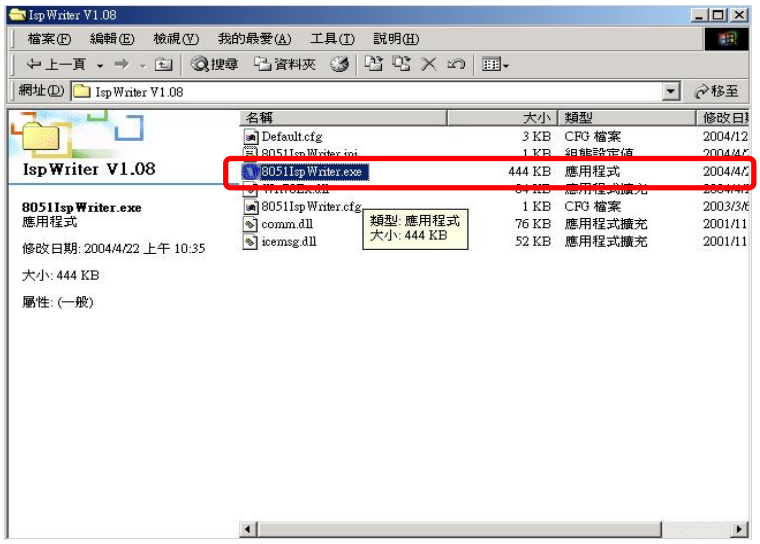
⑤. RS-232 port location.

⑤-1. Connecting RS-232 Cable to TV set.

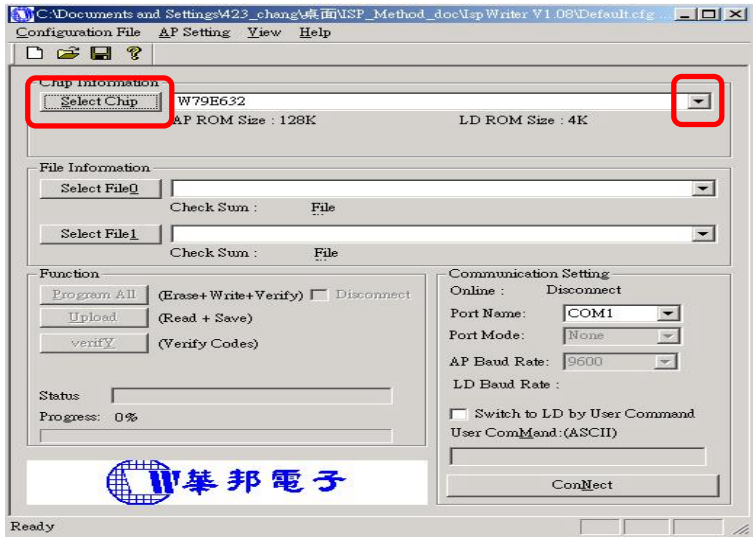
⑤-2. Connecting to the computer's RS-232 port.



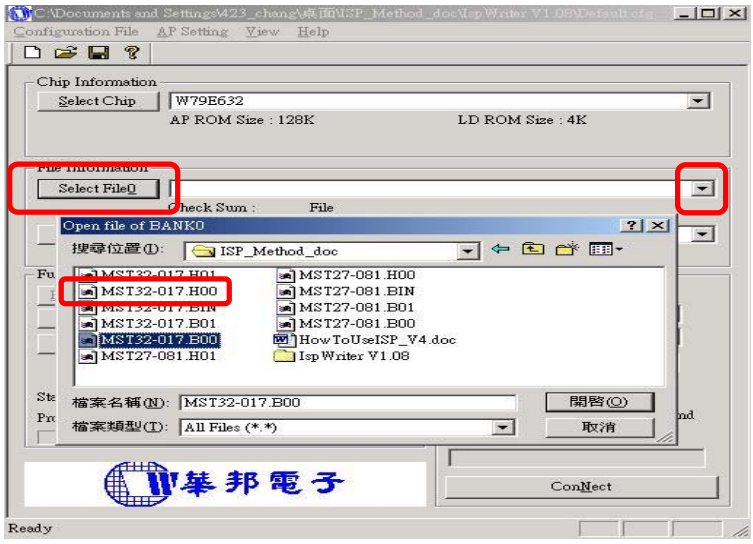
⑥. To execute CPU IspWriter.exe program on your PC, as the right screen appeared:



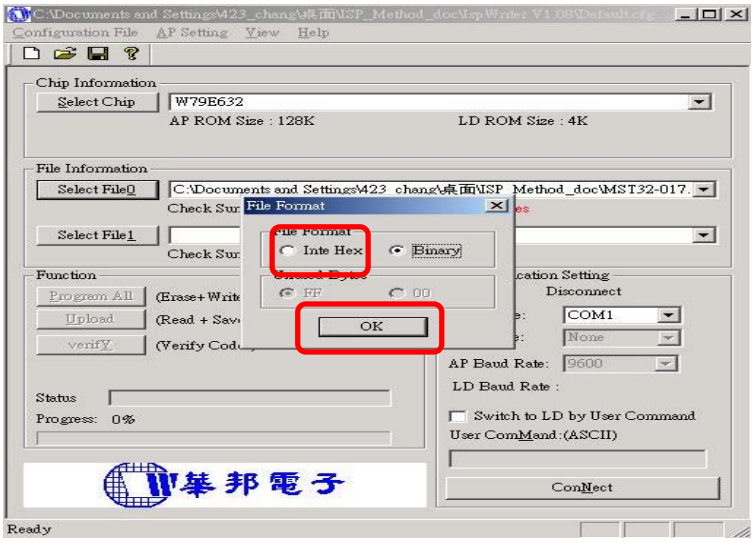
⑦.Clicking【Select Chip】or【 ▼ 】to select "W79E632".



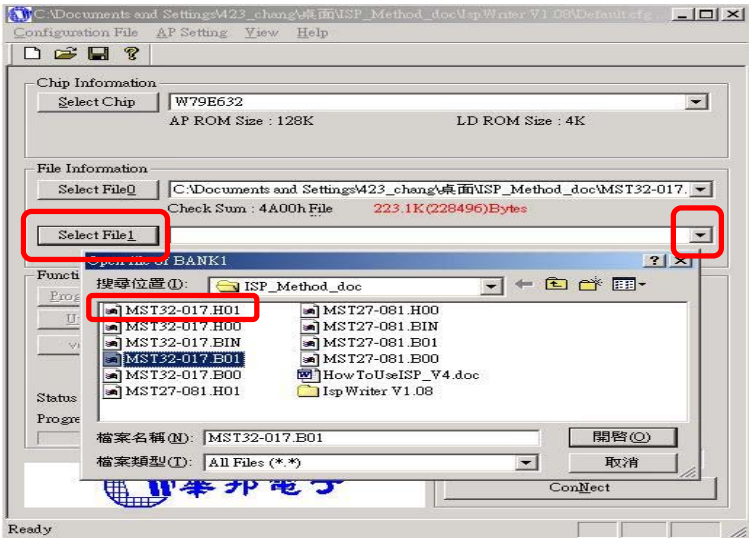
⑧. Clicking【Select File0】or【 ▼ 】to select "*.H00".



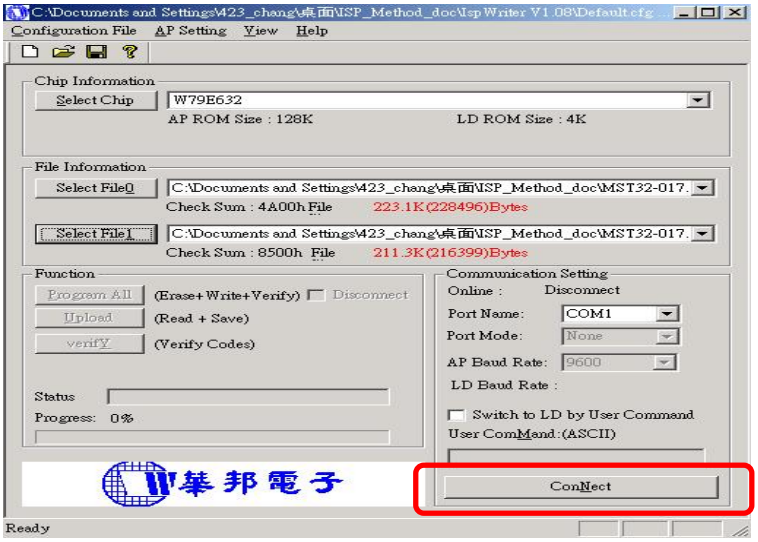
⑨.Selecting "Inte Hex" , press "OK" next.



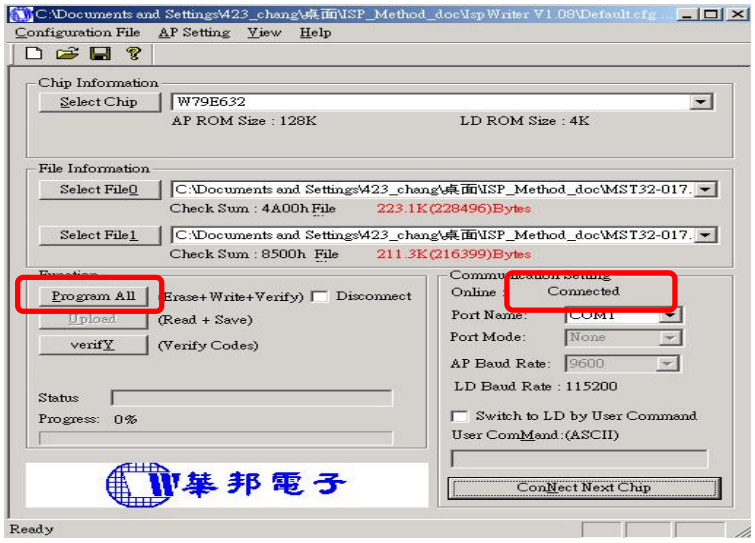
⑩.Pressing【Select File1】or【 ▼ 】to select "*.H01".



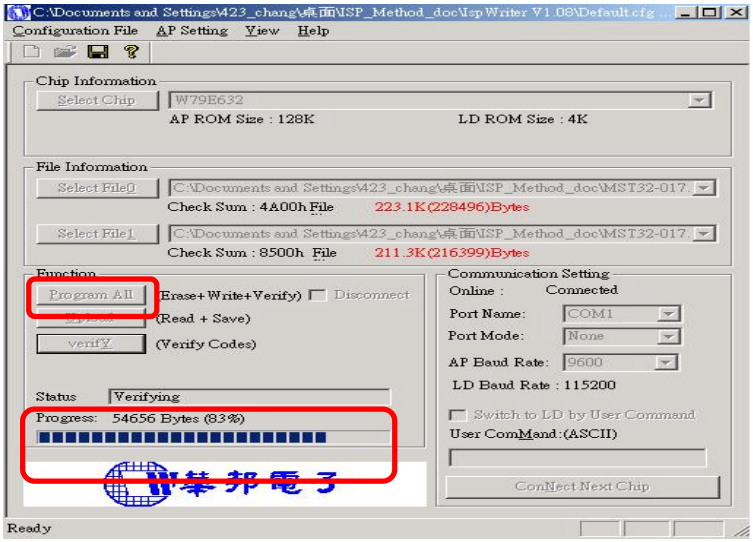
⑪. Confirming the connection RS-232 again, press【ConNect】next.



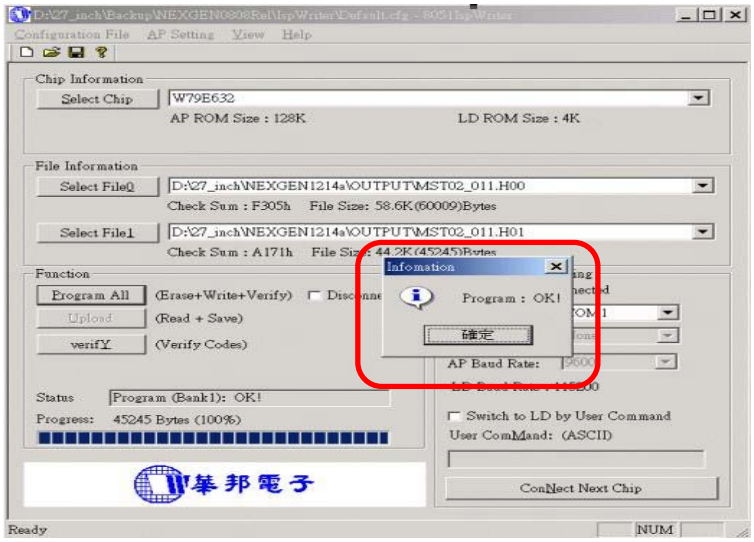
⑫. Showing【Connected】and【Program All】.



⑬. Pressing【Program All】,then start to update F/W.

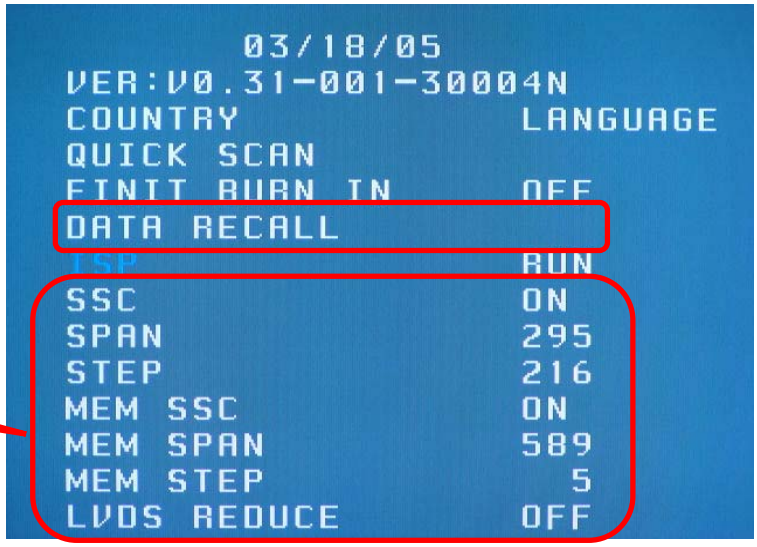


⑭.Showing【Program: OK!】after update operation finished ,press "YES" next.

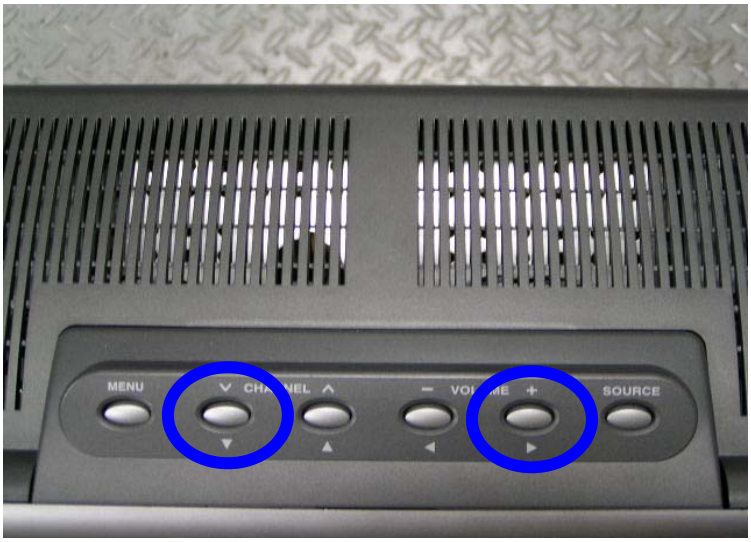


⑮.After completed update F/W operation, pull out AC power cord, then insert again. Turn on the power and into Factory Mode
"DATA RECALL", press Vol◀ or ▶, resume default.

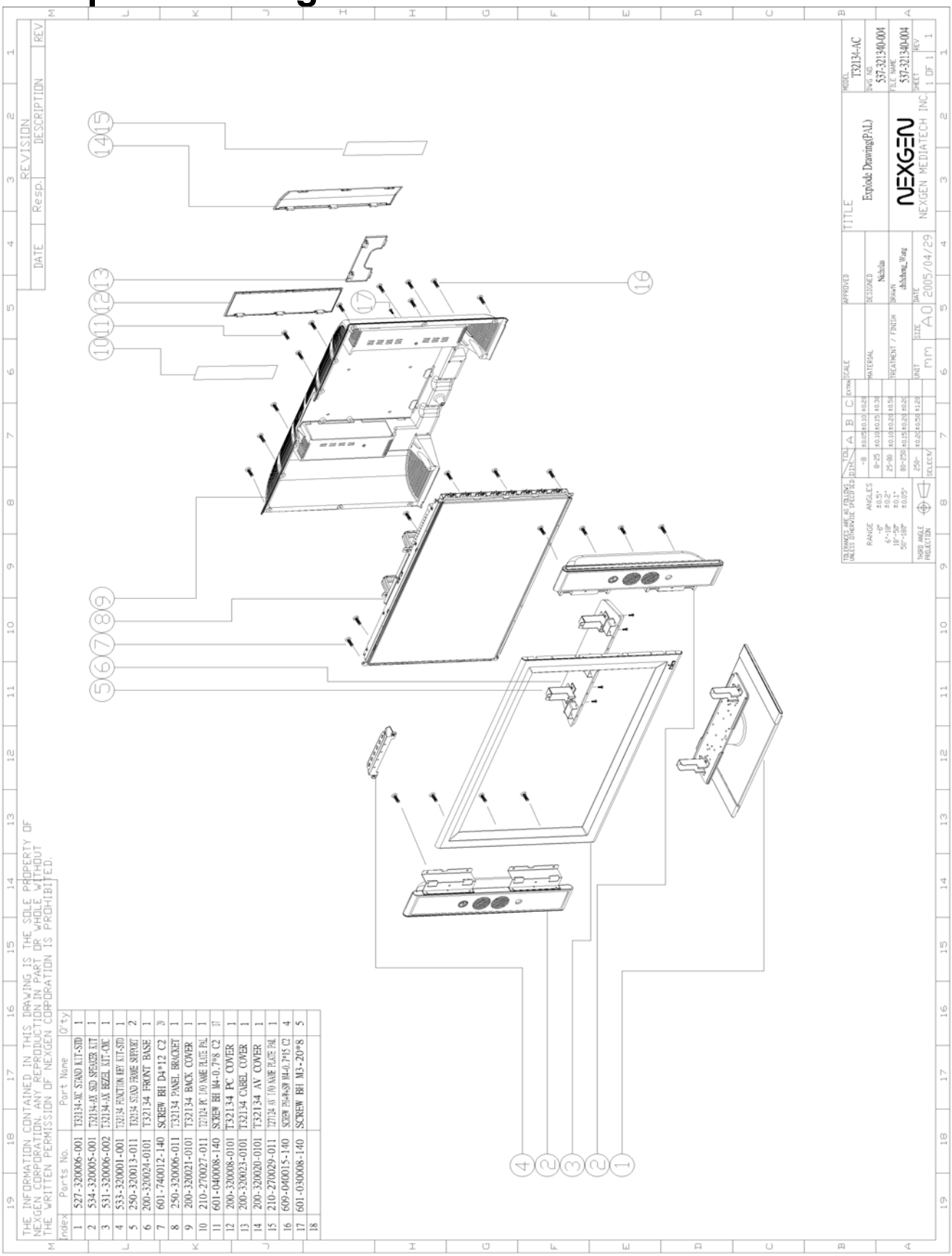
Below set, there is no function.



⑯. Pull out AC power cord while After update failing，press CH▼ and VOL▶ stay ,then insert AC power cord，free two buttons and wait for 5 seconds, begin to update F/W.
(Jump to 27 page ⑤ item).



8. Explosion Diagram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REVISION
DATE Resp. DESCRIPTION REV
TITLE
Explode Drawing(P.M.)
NEXGEN MEDIATECH INC.
MODEL: T32134-AC
DWG NO: 537-321340-004
FILE NAME: 537-321340-004
SHEET 1 OF 1
REV 1
DESIGNED Nicholas
DRAWN chisheng_Wang
DATE 2005/04/29
SIZE A0
UNIT mm
MATERIAL
TREATMENT / FINISH
SCALE
APPROVED
THIRD ANGLE PROJECTION
Index Parts No. Part Name Q'ty
1 527-320006-001 T32134-AC STAND KIT-STD 1
2 534-320005-001 T32134-AX SSD SPEAKER KIT 1
3 531-320006-002 T32134-AX BEZEL KIT-ODC 1
4 533-320001-001 T32134 FUNCTION KEY KIT-STD 1
5 250-320013-011 T32134 STAND FRAME SUPPORT 2
6 200-320024-0101 T32134 FRONT BASE 1
7 601-7400012-140 SCREW BH D4*12 C2 20
8 250-320006-011 T32134 PANEL BRACKET 1
9 200-320021-0101 T32134 BACK COVER 1
10 210-270027-011 T32134 PC 7/10 NAME PLATE PAL 1
11 601-0400008-140 SCREW BH M4-0.7*8 C2 15
12 200-320008-0101 T32134 PC COVER 1
13 200-320023-0101 T32134 CABEL COVER 1
14 200-320020-0101 T32134 AV COVER 1
15 210-270029-011 T32134 10 7/10 NAME PLATE PAL 1
16 609-040015-140 SCREW PWH M3-0.5*15 C2 4
17 601-030008-140 SCREW BH M3-20*8 5
18

9. Level 1 Spare Parts List

T32134-AC LCD (3RD ASSY)

817-321340-003

Material		P/N	English Description	STD Usage
PCBA		510-271012-051	PCBA T27004 VIDEO BOARD V0.34	1
		510-321001-011	PCBA T32134 MAIN BOARD V0.3	1
Accessory		151-051503-002	BATTERY ALKALINE AAA 1.5V	2
		170-101803-101	P-CORD 250V 5A 3P BLK 1.8M UK	1
		171-081802-101	CAB AV 3RCA Y/R/W 1.8M	1
		290-270020-021	T27004 REMOTE CONTROLLER-PAL	1
		480-320004-011	T32134 USER'S MANUAL STD	1
		481-320010-011	T32134-AC QUICK GUIDE STD	1
		482-000010-011	WARRANTY CARD-FUNAI	1
Internal cable		174-001601-101	WIRE FC-16P P2.54 L=140MM	1
		174-270205-101	WIRE T27124 TV 2IF 2P L=250	1
		174-273007-101	WIRE T27124 VIDEO 30P L=330	1
		174-320202-101	WIRE T32114 SPK-L 2P L=620	1
		174-320204-101	WIRE T32114 SPK-R 2P L=620	1
		174-320301-101	WIRE T32114 AC POWER 3P L=410	1
		174-320603-101	WIRE T32114 IR 6P L=600	1
		174-320604-101	WIRE T32114 DC POWER 6P L=600	1
		174-321002-101	WIRE T32114 KEYPAD 10P L=130	1
		174-322201-101	WIRE T32114 INV 10-12P L=270	1
		174-323002-101	WIRE T32114 PANEL 30P L=160	1
SKD Bezel Kit		531-321340-003	T32134-AC SKD BEZEL KIT-FUNAI	1
	PCBA	510-270005-011	PCBA T27124 IR BOARD V1.0	1
		200-270048-0101	T27001 LIGHT GUIDE-FINESSE	1
		200-270077-0101	T27124 POWER BUTTON	1
		200-320009-0101	T32134 FRONT BEZEL	1
		200-320024-0101	T32134 FRONT BASE	1
		220-270015-011	T27124 RUBBER FOOT	4
		250-320013-011	T32134 STAND FRAME SUPPORT	2
		462-000010-011	LOGO FUNAI	1
		479-000003-011	HD READY LABEL	1
		601-040008-140	SCREW BH M4-0.7*8 C2	12
		601-430008-040	SCREW BH D3*8 C2	2
		601-740012-140	SCREW BH D4*12 C2	5
	Function Key Kit	533-320001-001	T32134 FUNCTION KEY KIT-STD	1
	PCBA	510-272003-021	PCBA NLC27C1 KEY BOARD	1

		174-321002-101	WIRE T32114 KEYPAD 10P L=130	1
		200-320010-0101	T32134 FUNCTION KEY	1
		200-320011-0101	T32134 FUNCTION PANEL	1
		601-430008-040	SCREW BH D3*8 C2	3
		650-040109-000	WASHER FIBER T=1.0	1
Stand Kit		527-320006-001	T32134-XC STAND KIT-STD	1
		200-320017-0101	T32134 STAND BASE COVER_C	1
		200-320019-0101	T32124 STAND SIDE COVER	2
		220-270015-011	T27124 RUBBER FOOT	8
		250-270056-021	T27124 HINGE MODULE A	1
		250-320010-011	T32134 STAND BASE PLATE	1
		250-320014-011	T32134 STAND FRAME	2
		250-320020-011	T32134 STAND FRAME PLATE	1
		601-740008-040	SCREW BH D4*8 C2	12
		603-040012-140	SCREW IH M4-0.7*12 C2	6
		609-040010-010	SCREW PH+SW+W(10) M4-0.7*10 C2	4
		609-040015-140	SCREW PH+W+SW M4-0.7*15 C2	6
SKD Speaker Kit		534-320005-001	T32134-AX SKD SPEAKER KIT	1
		154-100808-101	SPK 10W 8R 266*61*50 L=180	2
		200-320012-0102	T32134-AX SPEAKER PANEL_R	1
		200-320013-0101	T32134 SIDE PANEL	2
		200-320015-0102	T32134-AX SPEAKER PANEL_L	1
		200-320016-0101	T32134-AX SPEAKER REAR COVER	2
		250-320009-031	T32134 SPEAKER SUPPORT	4
		600-040012-010	SCREW PH M4-0.7*12 C2	8
		601-740012-140	SCREW BH D4*12 C2	4
		601-740016-040	SCREW BH D4*16-MULTISTROKES	4
Packing material		240-420001-011	CARTON LOCK	2
		401-320003-011	T32134_A BOTTOM CARTON	1
		401-320022-021	T32134 MAIN CARTON-FUNAI UK	1
		403-320004-011	T32134_A EPE CUSHING TOP RIGHT	1
		403-320005-011	T32134_A EPE CUSHING TOP LEFT	1
		403-320009-011	T32134_A EPE CUSHING BOTTOM	1
		404-000009-011	RECLOSEABLE BAG	1
		404-320004-011	T32134-AX MEALIE BAG	1
Mechanical parts		185-019201-101	AC/DC P-SUPPLY 192W 100~240V	1
		200-320008-0101	T32134 PC COVER	1
		200-320020-0101	T32134 AV COVER	1
		200-320021-0101	T32134 BACK COVER	1

		200-320023-0101	T32134 CABEL COVER	1
		210-270027-011	T27124 PC I/O NAME PLATE PAL	1
		210-270029-011	T27124 AV I/O NAME PLATE PAL	1
		230-320007-011	T32001 PANEL MYLAR SHEET	1
		250-270053-011	T27124 MAIN COVER BRACKET	1
		250-270073-011	T27124 AV PANEL BRACKET	1
		250-320006-011	T32134 PANEL BRACKET	1
		250-320015-011	T32134 WALL MOUNT BRACKET	2
		250-320018-011	T32134 PC PANEL BRACKET	1
		460-320015-011	T32134 SAFETY LABEL-FUNAI UK	2
		461-000004-011	SPEAKER CAUTION LABEL	1
		485-320002-011	T32134-A SPEAKER CAUTION SHEET	1
Screws		600-040012-010	SCREW PH M4-0.7*12 C2	4
		601-030008-140	SCREW BH M3-20*8	5
		601-040008-140	SCREW BH M4-0.7*8 C2	13
		601-430008-040	SCREW BH D3*8 C2	9
		601-740012-140	SCREW BH D4*12 C2	40
		602-030006-110	SCREW WH7 M3-0.5*6 C2	26
		604-030008-140	SCREW FH M3-0.5*8 C2	2
		605-204007-011	SCREW HH UNC4#-40*7 H5	6
		609-040006-030	SCREW PH+SW+TW(8.4) M4-0.5*6C2	1
		609-040015-140	SCREW PH+W+SW M4-0.7*15 C2	4
Other parts		180-320001-101	32" LCD PANEL MODULE 1366*768	1